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SERVICE MANUAL

Vision Master™ Pro 512 HA202DT

Copyright IIYAMA CORPORATION

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SAFETY PRECAUTION

- The design of this product contains special hardware, many circuits and components specially for safety purposes.
 For continued protection, no changes should be made to the original design unless authorized in writing by the
 manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be
 performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by mark "#" on the schematics and "!" on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may create shock, fire, or other hazards.

4. Use isolation transformer.

The chassis and any sub-chassis contained in some products are connected to the primary circuit of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the primary circuit of the AC power supply is exposed.

5. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.) To maintain the proper minimum level of soft X-ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

6. Isolation Check

(Safety for Electrical Shock Hazard)

After reassembling the product always perform an isolation check on the exposed metal parts of the cabinet (video input and output terminals, control knobs, screwheads, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1,500V AC(r.m.s.), 20mA(current sensitivity) for a period of one minute.

This method of test requires a test equipment not generally found in the service trade.

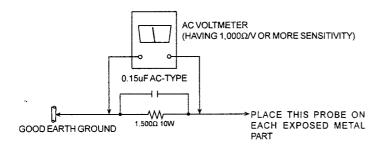
(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe etc.). Any leakage current must not exceed 3.5mA AC(r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15uF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe etc.).

Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 2.45V AC(r.m.s.). This corresponds to 3.5mAAC(r.m.s.).



1. SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

<Required measuring equipment>

Signal generator (Programmable video generator)...... Leader 1604A DC voltmeter (300V DC range) Note: Digital multimeter can also be used. High voltage probe (0-30kV DC) Scale (Two 50cm scales put together so that no visual aberration occurs.) Frequency counter Digital wattage meter Degausser Headphones CD player Audio-LR confirmation equipment USB compliant computer Interface adapter (livama handmade)

<Preparation>

1. Place the monitor without tilting.

Short-connector (liyama handmade)

- 2. Connect the signal cable from the signal generator to the monitor.
- 3. Face the CRT screen to east so as not to be influenced by magnetic force.
- 4. Turn ON the Power Switch, and degauss the entire screen with degausser. → See "EXTERNAL DEGAUSS".
- Perform adjustment by setting the brightness to center and the contrast to maximum, except where specifically indicated.
- Receive MODE 5 and turn ON the Power Switch. Perform adjustment after a warm-up of at least an hour.
- Adjustment data is automatically saved in the memory when the on screen display disappears, when another signal is received.

Note: This monitor should be checked and adjusted by connecting it to a signal generator, then entering and running the timing charts both below and of Chapter 2.

1H	H Resolution*			larity	Sync	Horizontal (µsec)				Vertical (msec)					
(kHz)	rvesolution	I	٧	Comp	green	Α	В	С	D	E	0	Р	Q	R	S
29.2	640×400	Ρ	Ρ	_	-	34.26	2.74	3.43	27.40	0.69	14.285	0.103	0.444	13.704	0.034
30.9	800×600	œ.	Р	-	-	32.36	2.57	3.34	25.68	0.77	20.000	0.097	0.455	19.416	0.032
47.6	1024×720	Ν	N	0	0	21.00	2.00	2.36	15.76	0.88	16.695	0.084	0.420	15.115	1.076
77.8	320×350	a	Р	_	1	12.69	1.06	1.64	9.40	0.59	5.000	0.038	0.508	4.442	0.012

^{*} The resolutions are only for your reference when using Leader 1604A.

ADJUSTMENT MODE

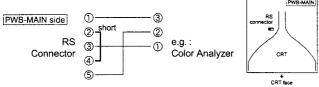
There are two different modes available to adjust the monitor as described below. The adjustment with 'D' in front of the title are only available under User Mode. The adjustments with '" in front of the title are only available under Factory Mode. You can perform the other adjustments by either User or Factory Mode. Please change the mode as required.

USER MODE:

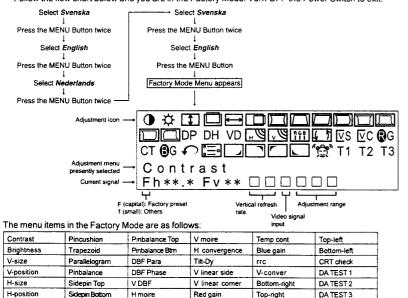
Turn ON the Power Switch and you are in the User Mode.

FACTORY MODE: There are two ways to enter the Factory Mode.

1. Turn OFF the Power Switch. Short between pins 2 and 4 of RS connector on the PWB-MAIN with a short-connector. Turn ON the Power Switch and you are in the Factory Mode. The following Factory Mode Menu appears on the screen when you press the MENU Button. Turn OFF the Power Switch and remove the short-connector from RS connector to exit.



2. In the adjustment menu, select "Function" on the Main Menu and then select "Language" on the Sub-Menu. Follow the flow chart below and you are in the Factory Mode. Turn OFF the Power Switch to exit.



EXTERNAL DEGAUSS

Make sure you disable the Bottom-right, Top-right, Top-left, Bottom-left, and rrc settings before performing the external degauss. Follow the procedure below depending on the adjustment mode you are in.

PROCEDURE

☐ USER MODE

- 1) Select Degauss and press the MENU Button so that the Bottom-right, Top-right, Top-left and Bottomleft will be disabled.
- 2) Degauss the entire screen with degausser while the Degauss is activated (approx. 6 seconds).

■ FACTORY MODE

- 1) Select CRT Check and press the MENU Button so that the Bottom-right, Top-right, Top-left, Bottom-left, and rrc will be disabled.
- 2) Confirm that the OSD stays displayed on the screen.
 - Note: If the OSD disappears, restart from 1).
- 3) Degauss the entire screen with degausser.

Top-right

1-1. 80V-ADJ adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 1 when applying the AC voltage of 110±10V.
- 2) Connect the DC voltmeter between CONNECTOR TP and GND (chassis).
- 3) Adjust the voltage to DC 83±0.5V with VR951 (80V-ADJ).



1-2. ANODE VOLTAGE adjustment [PWB-MAIN]

WARNING!

VR501 (HV-ADJ) and VR503 have been carefully factory-adjusted for each unit in order to satisfy regulations regarding X-radiation. Further adjustment on VR501 and VR503 shall not be performed. In case of adjustment, the adjusted position of VR501 and VR503 must be fixed by a soldering iron to prevent it from rotating.

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn OFF the Power Switch.
- 3) Connect a high-voltage probe between CRT anode and GND (chassis).
- 4) Turn ON the Power Switch.
- 5) Adjust the high-voltage to 27.0±0.1kV with VR501 (HV-ADJ).
- 6) Confirm the variation of high-voltage is within ±0.2kV when receiving MODE 1 and MODE 8 respectively
- 7) Turn OFF the Power Switch and remove the high-voltage probe.



1-3. SCREEN VOLTAGE adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn ON the Power Switch.
- 3) Connect a high-voltage probe between LEAD-CONNECTOR SC on the PWB-MAIN / CONNECTOR SC on the PWB-VIDEO and GND (chassis).
- 4) Adjust the screen voltage to 630±10V with SCREEN VR located lower of

Note: SCREEN VR should not be turned after the adjustment above.



T501(FBT)

1-4. X-ray ADJ adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn OFF the R, G and B outputs on the signal generator.
- 3) Connect the DC voltmeter between D526 cathode (TP-XRAY ADJ) and GND (chassis).
- 4) Adjust the voltage to DC 1.7±0.1V with VR503.



1-5. POWER FACTOR CIRCUIT confirmation [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Turn OFF the Power Switch.
- 3) Connect the DC voltmeter between TP4 and TP0.
- 4) Turn ON the Power Switch.
- 5) Confirm that the voltage is DC 360±40V.
- 6) Remove the DC voltmeter.

■1-6. TEMPERATURE SENSOR confirmation

1) Receive a cross-hatch inverted signal of MODE 5.

CRT Check

30 - Monitor

2) Select CRT Check and press the MENU Button.

3) Confirm that respective temperature of CRT fannel and monitor front displayed on the screen is as follows: actual temperature ±5°C.

■1-7. FH-LIMITER confirmation

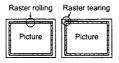
- 1) Receive a cross-hatch inverted signal of fH 29.2kHz.
- 2) Confirm that the picture disappears. Also, make sure the horizontal oscillation frequency is within the specified range: 58-62kHz.
- 3) Receive fH 30.9kHz and confirm that the picture is synchronized.
- 4) Receive fH 77.8kHz and confirm that the picture is synchronized.
- 5) Turn OFF the power of signal generator and confirm that the picture disappears. Also make sure the horizontal oscillation frequency is within the specified range above.
- 6) Remove the frequency counter.

■1-8. H-BLANKING confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Minimize the horizontal size (H-size) with the front buttons.
- Raster rolling
- 3) Select DA TEST 2 and press the MENU Button so that the automatic confirmation program starts.
- 4) Confirm that X of the right hand side figure is as follows: X </= 3.0mm.
- 5) Adjust the horizontal size roughly with the front buttons.

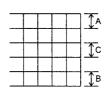
■1-9. V-BLANKING confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the vertical size and position (V-size and V-position) of the picture roughly with the front buttons.
- 3) Select DA TEST 2 and press the MENU Button so that the automatic confirmation program starts.
- 4) Confirm that the back-raster is not rolling or tearing at the top.
- 5) Confirm that no retrace line is over the picture.



■1-10. V-LIN adjustment

- 1) Receive a cross-hatch inverted signal of MODE 7.
- 2) Adjust the vertical size so that the size is 295±4mm.
- 3) Adjust the vertical linear corner (V linear corner), so that difference between A and B of the right hand side figure is as follows: | A-B | </= 0.5mm
- 4) Adjust the vertical linear side (V linear side), so that A, B and C are almost egual.



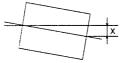
■1-11. H-CENT adjustment [PWB-MAIN]

- 1) Receive a cross-hatch inverted signal of MODE 8.
- 2) Adjust the horizontal size and position of the picture roughly with the front buttons.
- 3) Maximize the brightness so that the back-raster appears on the screen.
- 4) Set S501 to the right, center or left so that A and B in the right hand side figure are almost equal.
- 5) Return the brightness to center indication.

S501 Right Back-raster

■1-12. TILT-DY adjustment

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the tilt deflection yoke (Tilt-Dy) with the ▶ / ■ Buttons so that X of the right hand side figure is as follows: | X | </= 0.5mm.



■1-13. PICTURE SIZE, POSITION AND DISTORTION adjustment (Criteria)

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Adjust the picture size and position to the specified setting below.

H-size: 395±4mm

H-position: | A-B |<4mm

V-size: 295±4mm

V-position: | C-D |<4mm

3) Correct the side distortion with the front buttons so that X of the right hand side figure is as follows: | X | </= 0.5mm/30mm when selecting the most remarkable distortion with the naked eye.

Pincushion

Parallelogram

Trapezoid Pinbalance Sidepin Top / Bottom

Pinbalance Top / Bottom

■1-14. PICTURE SIZE, POSITION AND DISTORTION adjustment

- 1) Receive a cross-hatch inverted signal of fH MODE 5.
- 2) Adjust the picture size, position and distortion roughly with the front buttons to the reference settings below.

H-size: 395±10mm

H-position: | A-B |<8mm

V-size: 295±10mm

V-position: I C-D I<8mm | X | </= 1.0mm/30mm when selecting the most remarkable

distortion with the naked eye.

Note: The picture should be within the bezel.

- 3) Receive a cross-hatch inverted signal of all preset modes respectively.
- 4) Adjust the picture size and position to the specified setting below.

H-size: 395±10mm

H-position: | A-B | <8mm

V-size: 295±10mm

V-position: | C-D | < 8mm

5) Correct the Pincushion and Trapezoid distortion with the front buttons so that X of the right hand side figure is as follows: | X | </= 0.5 mm/30mm when selecting the most remarkable distortion with the naked eye.

Note: No other adjustment items for distortion than the above should be adjusted.

□1-15. RESET confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Change the horizontal position (H-position) roughly with the front buttons.
- 3) Perform Reset.
- 4) Confirm that the adjustment data above is reset to the factory setting.



















■1-16. Automatic COLOR adjustments

WARNING: Do not change the horizontal and vertical sync signal or the frequency while the automatic COLOR adjustments are underway.

Color analyzer setting:

- Luminance unit switch: cd/m²
- B.P.S. DIP switch: 9600 (1000)
- Turn ON the color analyzer switch and press 0-CAL switch before use.



cd/m²

Luminance unit switch

- 1) Be sure to enter the Factory Mode by using the short-connector.
- Connect the interface adapter from RS-232C of the color analyzer to the PWB-RS of the short-connector.
- 3) Receive a white window signal of MODE 5.
- 4) Turn OFF the R, G and B outputs on the signal generator.
- 5) Apply a color analyzer probe to the center of the screen.
- 6) Turn ON the Remote Switch of the color analyzer so that the automatic CUT-OFF adjustment starts.
- Turn ON the R, G and B outputs on the signal generator so that the COLOR TEMPERATURE and CONTRAST LIMIT adjustments start automatically.

<COLOR TEMPERATURE>

The X and Y specified readings of the color analyzer are as follows:

CT1 (9300K)

X: 0.283±0.008

Y: 0.297±0.008

<CONTRAST>

The specified contrast range is 140±8cd/m2.

Note: In case that the contrast is not within the specified range above, repeat 4) to 7).

- 8) The OSD disappears.
- 9) Press the MENU Button so that the OSD appears.
- 10) All adjustment data is stored when the OSD disappears.
- 11) Turn OFF the Remote Switch of the color analyzer.
- 12) Turn OFF and ON the Power Switch and you are in the User Mode.
- 13) Perform Reset and confirm the Brightness ranges are as follows:

ONQ ON: 140±8cd/m² OPQ OFF: 110±8cd/m²

Note: The adjustments above can be repeated by turning OFF and ON the Power Switch.

■1-17. GRAY SCALE confirmation

- 1) Receive a 16-gradation gray scale signal of MODE 5.
- Make sure the 15th gradation on the gray scale is barely visible when the 16th gradation (back raster) is not visible at all.

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■1-18. BRIGHTNESS adjustment [PWB-MAIN]

- 1) Receive an entire white raster signal of MODE 5.
- 2) Apply a photometer to the screen center.
- 3) Adjust VR502 (ABL-ADJ) so that photometer reads 105±5cd/m².

Brightness VR502 ABL-ADJ

■1-19, SYNC SIGNAL INPUT confirmation

- 1) Receive a cross-hatch inverted signal of fH 47.6kHz.
- Select composite and sync on green signal inputs respectively by the signal generator.
- 3) Confirm that the picture is displayed normally.

□1-20. SIGNAL SELECT confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- 2) Switch the signal input to VIDEO IN 1 and VIDEO IN 2 respectively.
- 3) Press the input Select Button (VIDEO 1/2) for approx. 5-6 seconds.
- 4) Confirm that the picture is displayed normally.

□1-21. POWER MANAGEMENT confirmation

- 1) Turn OFF the Power Switch and connect a digital wattage meter.
- 2) Turn ON the Power Switch.
- 3) Receive a cross-hatch inverted signal of MODE 5.
- 4) Turn OFF the R, G and B outputs on the signal generator.
- 5) Disconnect the H/HV and V cables.
- Confirm that the input wattage is 3W or less and the Power Indicator turns to orange.
- 7) Connect the H/HV and V cables and confirm that the picture appears.
- 8) Turn OFF the Power Switch and remove the digital wattage meter.
- 9) Turn ON the Power Switch.

■1-22. H-CONVERGENCE confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- Select H-convergence or DA TEST 2, and press the MENU Button so that the automatic confirmation program starts.
- 3) Confirm that the horizontal line is diverged.

■1-23. V-CONVERGENCE confirmation

- 1) Receive a cross-hatch inverted signal of MODE 5.
- Select V-convergence or DATEST 2, and press the MENU Button so that the automatic confirmation program starts.
- 3) Confirm that the vertical line is diverged.

-9-

■1-24. RASTER REGULATION (DYNAMIC) confirmation

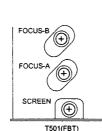
- 1) Receive an entire white signal of MODE 5.
- 2) Set the input signal by the signal generator as follows:

V-DISP-TIME: 150 V-POSI-TIME: 450

- Maximize the brightness or set the signal level to 0.9Vp-p by the signal generator.
- 4) Confirm that <W of the right hand side figure is 1.0mm or less when turning the luminance volume on the signal generator to the maximum and "1" respectively.
- 5) Return the brightness to center indication.

■1-25. FOCUS [PWB-MAIN]

- 1) Receive a green cross-hatch signal of MODE 5.
- 2) Adjust FOCUS-B VR of T501 (FBT) to make the vertical lines sharpest at points L, M and R as shown in Fig 1.
- Adjust FOCUS-A VR of the T501 to make the horizontal center line sharpest at points L, M and R as shown in Fig. 1.
- 4) If the focus at points T and M is as shown in Fig. 2, adjust V-DBF in the menu with the front buttons to make the horizontal lines have the same thickness at points T, M and B. And adjust the FOCUS-A VR again to make the horizontal lines sharpest at points T, M and B. (V-DBF should not be adjusted when focus at points T and M is optimum.)
- 5) If the focus at points L and M is as shown in Fig. 3 or vice versa, adjust DBF Para and DBF Phase in the menu with the front buttons to make the horizontal center line have the same thickness at points L, M and R. And adjust the FOCUS-A VR again to make the horizontal center line sharpest at points L, M and R. (DBF Para and DBF Phase should not be adjusted when focus at points L and M is optimum.)
- 6) Repeat 2) to 5) until the focus is optimum.
- 7) Confirm no focus variation on the entire screen.
- 8) Check the focus with red and blue respectively.
- 9) Receive a H-character signal and repeat 7).
- Repeat the FOCUS adjustments until the focus with red, green and blue is optimum.



Back-raster

Picture







1-26. LUMINANCE DIFFERENCE confirmation

- 1) Receive an entire white signal of MODE 5.
- Apply a photometer to the two points where the luminance difference is remarkable with the naked eye.
- 3) Confirm that the luminance difference is 22.5cd/m² or less.

D © R D B 69

1-27, AUDIO confirmation

- 1) Turn the Volume Control from 0% to 100% and make sure the sound is normal without hum etc.
- 2) Set the Volume Control at mechanical center.
- Connect the output of a CD player to the Audio Connector and make sure the right and left speaker works normally.
- 4) Turn the Volume Control and make sure the volume varies.
- 5) Connect Audio-LR confirmation equipment between the Audio Connector and CD player.
- 6) Turn off left switch of the Audio-LR confirmation equipment and make sure the right speaker works normally.
- 7) Turn off right switch of the Audio-LR confirmation equipment and make sure the left speaker works normally.
- 8) Turn the Volume Control to 0% and connect headphones to the Headphone Connector.
- 9) Confirm that the Headphones don't make noise.
- 10) Turn the Volume Control from 0% to 100% and make sure the sound from the both headphones is well balanced and normal without hum etc.

1-28. USB Operation Check

- 1) Connect cables according to the user manual.
- 2) Turn ON the Power Switch of the monitor and computer.
- 3) Double-click "Universal serial bus controller" as shown in Fig 1 on next page.
- 4) Confirm that "Generic USB Hub" or "liyama USB Hub" appears as shown in Fig 2.
- 5) Disconnect the USB Cable from the USB compliant computer.
- 6) Double-click "Universal serial bus controller".
- 7) Confirm that "Generic USB Hub" or "liyama USB Hub" disappears as shown in Fig 3.
- 8) Connect the USB Cable to the stand.
- 9) Repeat 1) to 5) and confirm that the USB function works normally.

Fig. 1

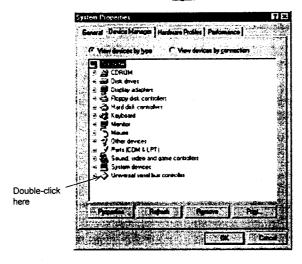


Fig. 2

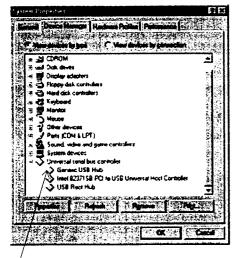
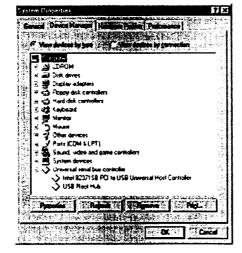


Fig. 3



"Generic USB Hub" or "livama USB Hub"

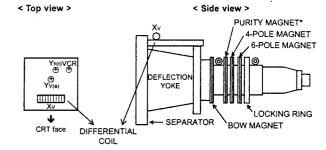
■1-29. ITC (Integrated Tube Component) adjustments

The following ITC adjustments should be made only when a new picture tube is installed, or convergence is poor. All set-up adjustments above-mentioned must be completed before any further ITC adjustment is attempted. Receive an entire white raster signal and turn ON the Power Switch. Perform adjustment after a warm-up of at least an hour.

Perform the following adjustments by setting H-convergence and V-convergence to center indication.

Notes: See Chapter 5 concerning parts list for the ITC adjustments.

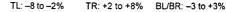
* PURITY MAGNET should not be turned during the ITC adjustments.

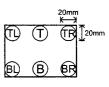


1-29-1. LANDING correction

Landing meter setting:

- Mode Select Switch: Monitor Normal
- Note: Mode Select Switch should be set before turning on the power switch of the landing meter.
- Volt: 2V
- Time: 50ms
- Gain: 7
- Unit: % for LND-070, 0.8µm (1%=0.8µm) for LND-072
- 1) Face the CRT screen to east and set it vertically.
- 2) Degauss the entire screen with degausser. → See "EXTERNAL DEGAUSS".
- 3) Select DEGAUSS and press the MENU Button.
- 4) Receive an entire green signal.
- 5) Adjust the horizontal size to make it full-scan.
- Apply the landing meter to TL (top-left), TR (top-right), BL (bottom-left) and BR (bottom-right) in the right hand side figure.
- 7) Confirm that "H" reading of the landing meter is within ±20% at each point.
- 8) Adjust rrc with the front buttons so that the "H" reading difference between T (top) and B (bottom) in the right hand side figure is as follows: | T-B | = ±3%.
- Adjust Bottom-right, Top-right, Top-left and Bottom-left respectively with the front buttons so that "H" reading of the landing meter at each point is as follows:





1-29-2, STATIC CONVERGENCE adjustment

- 1) Receive a red and blue cross-hatch signal.
- Adjust the 4-POLE MAGNET so that red and blue beams converge on the center cross lines.
- 3) Add green to the red and blue cross-hatch signal.
- Adjust the 6-POLE MAGNET so that red and blue beams converge with green beam on the center cross lines.
- 5) Repeat the adjustment until red, blue and green beams converge each other
- 6) Fix the 4-POLE MAGNET and the 6-POLE MAGNET by turning the LOCKING RING.
- 7) Mark the 4-POLE MAGNET and the 6-POLE MAGNET with paint marker (090Z029A01) so that adjusted position is understandable.

R,G,B

1-29-3. BOW MAGNET adjustment

- 1) Receive a red and blue cross-hatch signal.
- Adjust the BOW MAGNET so as to straighten an arched horizontal line.
 Note: Must be careful not to misconverge vertical lines by this adjustment.
- Perform the 1-29-3. STATIC CONVERGENCE adjustment so as to converge the red and blue lines.
- 4) Fix the BOW MAGNET with paint (090Z020A01).



B_____R

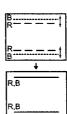
1-29-4. DIFFERENTIAL COIL adjustment (XV adjustment)

- 1) Receive a red and blue cross-hatch signal.
- 2) Adjust the DIFFERENTIAL COIL so that the horizontal cross line converge each other.



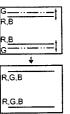
1-29-5. YV (a) adjustment

- 1) Receive a red and blue cross-hatch signal.
- Adjust the specified YV (a) volume so that red and blue beams converge each other at the upper and lower edges of the horizontal line.



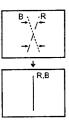
1-29-6. VCR adjustment

- 1) Receive a white cross-hatch signal.
- Adjust the specified VCR volume so that red, green and blue beams converge each other at the upper and lower edges of the horizontal line



1-29-7. YH (t) adjustment

- 1) Receive a red and blue cross-hatch signal.
- Adjust the specified YH (t) volumes so that vertical cross lines converge each.



1-29-8. DIGITAL CONVERGENCE adjustments

- 1) Receive a red and blue cross-hatch signal.
- Adjust the horizontal convergence (H-convergence) and the vertical convergence (V-convergence) with the front buttons so that red and blue beams converge.
- Press the Input Select Button (VIDEO 1/2) so that the OSD as shown in the right hand side figure appears and the Digital H/V-convergence is enabled.
- 4) Confirm the horizontal/vertical convergence at the points: C0 to C8, B0 to B8, A0 to A8, D0 to D8, E0 to E8 in the right hand side figure.
- If the horizontal/vertical line is diverged, select the adjustment point with the +/- Buttons and switch to X (H) or Y (V) with the MENU Button.
- 6) Press the +/- Buttons while the OSD is displayed to make red and blue beams converged.
- Press the Input Select Button (VIDEO 1/2) so that the Digital HNconvergence is disabled.
- 8) Add green to the red and blue cross-hatch signal.



BO	B1	В2	В3	B4	B 5	В6	В7	B8
CO	C1	C2	C3	C4	C5	C6	C7	C8
ΕO	E1	E2	E3	E4	E5	E6	E7	E8
	B0 C0 D0	B0 B1 C0 C1 D0 D1	B0 B1 B2 C0 C1 C2 D0 D1 D2	B0 B1 B2 B3 C0 C1 C2 C3 D0 D1 D2 D3	B0 B1 B2 B3 B4 C0 C1 C2 C3 C4 D0 D1 D2 D3 D4	B0 B1 B2 B3 B4 B5 C0 C1 C2 C3 C4 C5 D0 D1 D2 D3 D4 D5	B0 B1 B2 B3 B4 B5 B6 C0 C1 C2 C3 C4 C5 C6 D0 D1 D2 D3 D4 D5 D6	A0 A1 A2 A3 A4 A5 A6 A7 B0 B1 B2 B3 B4 B5 B6 B7 C0 C1 C2 C3 C4 C5 C6 C7 D0 D1 D2 D3 D4 D5 D6 D7 ED E1 E2 E3 E4 E5 E6 E7

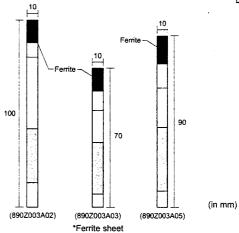
Points

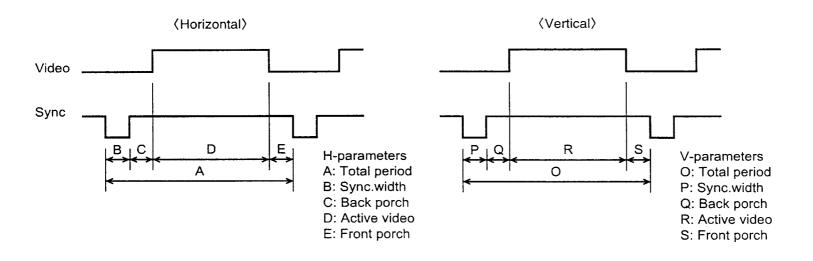
1-29-9. SCREEN-CORNER MISCONVERGENCE correction

- 1) Receive a red and blue cross-hatch signal.
- Affix a *ferrite sheet (890Z003A02/890Z003A03/800Z003A05) between SEPARATOR and CRT corresponding to the partially misconverged areas.
 Note: Must be careful not to affect distortion by this correction.
- 3) Fix the ferrite sheet with ACETATE-TAPE (890P306A10). **Note:** Only for 800Z003A02 and 800Z003A03)









	:			fH	fV	Syn	ic pola	arity	Sync		Hori	zontal (µ	sec)			Vei	tical (ms	ec)	
- 17 -	Mode	e VESA Timing Name	ESA Timing Name	(kHz)	(Hz)	Н	٧	Comp	on green	Α	В	C	D	E	O	P	Q	R	S
	1	640×480	@60Hz	31.469	59.940	N	N	_	_	31.778	3.813	1.907	25.422	0.636	16.683	0.064	1.048	15.253	0.318
	2	640×480	@ 85Hz	43.269	85.008	N	N	_	-	23.111	1.556	2.222	17.778	1.556	11.764	0.069	0.578	11.093	0.023
	3	800×600	@ 85Hz	53.674	85.061	Р	Р	-	_	18.631	1.138	2.702	14.222	0.569	11.756	0.056	0.503	11.179	0.019
	4	1024×768	@ 85Hz	68.677	84.997	Р	Р	_	-	14.561	1.016	2.201	10.836	0.508	11.765	0.044	0.524	11.183	0.015
-	5	1280×1024	@ 85Hz	91.146	85.024	Ρ	Р	_	-	10.971	1.016	1.422	8.127	0.406	11.761	0.033	0.483	11.235	0.011
	6	1600×1200	@ 85Hz	106.250	85.000	Р	Р	-	_	9.412	0.837	1.325	6.972	0.279	11.765	0.028	0.433	11.294	0.009
	7	1920×1440	@ 85Hz	128.520	85.000	Р	Р	_		7.781	0.633	1.078	5.625	0.445	11.765	0.023	0.529	11.204	0.007
	8	2048×1536	@ 85Hz	137.020	85.000	Р	Р	_	-	7.298	0.577	1.010	5.278	0.433	11.765	0.021	0.525	11.210	0.007

3. IC APPLICATION

Ref No.	Description	Application	Location (PWB)
		The state of the s	
IC350	UPC1888DCT	H&V oscillator, Distortion / Size / Phase / DBF control, Variable B control	MAIN
IC401	LA7840L	Vertical deflection output	↑
IC501	SLA5070	S-correction switching	Λ
Power	circuit		
IC901	STR-G6551	Sub power control	STAND
IC921	431	5V output control	↑
IC951	MC33260P	Power factor control	MAIN
IC952	3842	Main power control	↑
IC953	7712/2412	12V regulator	↑
IC351	7812	12V regulator	1
IC205	7805	12V regulator	STAND
IC703	29M33	3.3V regulator	CORRECTION
IC704	78M05	5V regulator	^
IC503	7805	5V regulator	MAIN
Microp	rocessor circuit		· · · · · · · · · · · · · · · · · · ·
IC104	TMP47C24N	Sub microprocessor	STAND
IC301	TMP86PP11AN	Main Microprocessor	MAIN
IC302	M51951BSL/KIA7045P	5V watcher	↑
IC303	24C08	E2PROM (DATA)	↑
IC102	24C21	E ² PROM (DDC)	STAND
IC103	24C21	E ² PROM (DDC)	↑
		and a little of the second	- 10 mm - 10 m
IC502		High voltage output control	MAIN
		ult and the second seco	
	M61323SP-600	Video input switch	STAND
	74LS157	H-sync and S.O.G. input switch	^
	CXA2153S	Video pre-amplifier	· •
	LM2412T	Video output	·
IC202	M35047-057SP/063SP	On screen display control	· •
IC204	LM240NA	Cut-off control	· •
	ircuit		Color of the second
			CORRECTION
IC701	M62393P UPD61882	D/A converter Digital signal processor	Δ Δ
IC702 IC705	LA6510/TA8410AK	POWER-0P-AMP (TILT/NS-RRC control)	1
IC705	LA6510/TA8410AK	POWER-OP-AMP (BL/BR control)	1
IC706	LA6510/TA8410AK	POWER-OP-AMP (TL/TR control)	<u>,</u>
IC707	STK391-110	POWER-0P-AMP (HV-convergence control)	<u>,</u>
	J.,	POWER-OF-AME (HIV-convergence contact)	
	onal function circuit		
IC601	AN7522	AUDIO-AMP	STAND
IC701	ISP1122	USB control	↑
IC702		E²PROM (USB)	↑ MAIN
IC304	MIU-231	Terrestrial magnetic sensor	IVIAIIN

Note: Specifications of Microprocessor are on next page.

Main microprocessor specifications

Pin	Name	Function	Pin	Name	Function
1	GND	GND	42	V-IN	V-SYNC signal input
2	X-IN	12MHz X'TAL	41	HIN	H-COMP / SYNC signal input
3	X-OUT	12MHz X'TAL	40	V-OUT	V-SYNC signal output
4	TEST	GND	39	H-OUT	H-SYNC signal output
5	Vcc	5V	38	CLAMP	Video clamp signal output
6	CS7	Cushion-S switching signal 7 output	37	MODEL-SW	Model no. switching
7	CS1	Cushion-S switching signal 1 output	36	MODEL-SW	Model no. switching
8	RESET	Reset	35	DDC-SDA	DDC SDA
9	CS2	Cushion-S switching signal 2 output	34	DDC-SCL	DDC SCL
10	SIZE-PWM	PWM-H SIZE	33	E ² PROM-SDA	E ² PROM SDA
11	DEG	Degauss control signal output	32	E ² PROM-SCL	E ² PROM SCL
12	CS3	Cushion-S switching signal 3 output	31	SDA	IIC SDA
13	CS4	Cushion-S switching signal 4 output	30	SCL	IIC SCL
14	CS5	Cushion-S switching signal 5 output	29	SUB-SO	Sub microprocessor data-out
315	CS6	Cushion-S switching signal 6 output	28	SUB-SI	Sub microprocessor data-in
16	H-LIN1	H-LIN1 switching signal output	27	SUB-SCK	Sub microprocessor clock
17	DRIVE1	H-DRIVE1 switching signal output	26	H-LIN2	H-LIN2 switching signal output
18	X	Magnetism X detection	25	DRIVE2	H-DRIVE2 switching signal output
19	Y	Magnetism Y detection	24	DIAG	Automatic adjustment clock
20	FUNNEL	CRT funnel temperature detection	23	DATA-OUT	Automatic adjustment data input
21	Vref	5 V	22	DATA-IN	Automatic adjustment data output

Sub microprocessor specifications

Pin	Name	Function	Pin	Name	Function
1	Vref	5V	28	VDD	5V
2	KEY1	Front key signal input (MENU/VIDEO)	27	GND	GND
3	KEY2	Front key signal input (UP/DOWN/LEFT/RIGHT)	26	GND	GND
-4	TEMP	Surrounding temperature detection	25	GND	GND
5	NC	N.C.	24	GND	GND
6	VOLUME1	Volume control 1	23	GND	GND
7	SOG SW	S.O.G. Switching signal ouput	22	RESET	Reset
8	PS1	Main power on/off control signal ouput	21	X-OUT	4MHz XTAL
9	SIG-SEL	Video input terminal select signal output	20	X-IN	4MHz XTAL
10	VOLUME2	Volume control 2	19	TEST	N.C.
11	VOLUME3	Volume control 3	18	SUB-SCK	Main microprocessor clock
12	VOLUME4	Volume control 4	17	SUB-SO	Data output
13	LED	LED signal output	16	SUB-SI	Data input
14	vss	GND	15	PS2	N.C.

4. CIRCUIT DESCRIPTION

4-1. POWER SUPPLY circuit

Power supply circuit consists of MAIN POWER circuit on PWB-MAIN and SUB POWER circuit on PWB-STAND. MAIN POWER circuit is a synchronous switching power supply circuit of primary output feedback with using control IC (IC952) and output FET (Q951). SUB POWER circuit is an asynchronous switching power supply circuit of secondary output feedback with using IC901 built-in output FET.

Power supply start procedure is as follows;

- ① Power switch is turned ON.
- ② SUB POWER circuit (5V and 8.5V output) is turned on.
- (3) K901 (RELAY) is turned on.
- POWER FACTOR circuit is turned on.
- S MAIN POWER circuit (83V, 32V, 16V and -12V output) is turned on.
- Monitor is activated.

(1) POWER FACTOR circuit

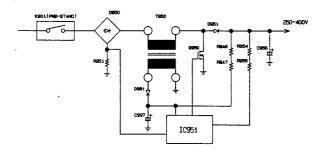
The voltage waveform from current is controlled to be in proportion with input voltage at pressor chopper circuit. This circuit is prevented from being harmonic by compared with following waveforms.

- ① The full-wave rectified voltage waveform from D950 via PWB-STAND and smoothed voltage waveform from C956.
- 2 The voltage waveform from R951

① and ② waveforms are compared at IC951. Q950 is turned off when ② exceeds ①, and turned on when ② is 0V. This repetition is to change input current to substantially sinusoidal waveform and it corrects harmonic distortion.

The output voltage vary between 250V and 400V by input AC voltage and load current.

The switching frequency is not constant as Q950 is turned on or off by monitoring input voltage and load current. The switching frequency is approx. 70-250kHz.



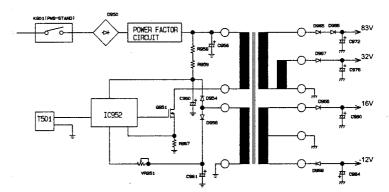
(2) MAIN POWER circuit

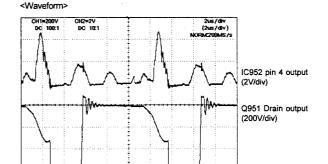
After the POWER FACTOR IC is activated, power source is supplied to 7 pin of IC952 (VCC) by start-up resister R958 and R959, and MAIN POWER circuit is activated. MAIN POWER circuit is supplied 25V auxiliary coil (detect coil) voltage between 8 and 9 pin of T951 (main transformer).

The T951 primary auxiliary coil detects the load of 32V output voltage from the T951 secondary and controls the feedback current by fed back to 2 pin of IC952 (FB).

The T951 secondary provides the following DC voltages:

- ① 83V line: Supplied to the HIGH VOLTAGE OUTPUT (T501) and the VIDEO OUTPUT IC (IC202) and
 - the CUT-OFF IC (IC204) as power source.
- ② 32V line: Supplied to the HORIZONTAL DEFLECTION OUTPUT (variable B voltage control) circuit
 - and HORIZONTAL DRIVE circuit as power source.
- 3 16V line: Supplied to the each 12V POWER CONTROL circuit, the CRT CORRECTION circuit and the
 - VERTICAL OUTPUT IC (IC104, +) as power source.
- -12V line: Supplied to the CRT CORRECTION circuit and the VERTICAL OUTPUT IC (IC104, -) as power source.





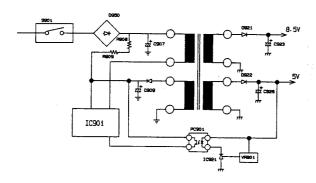
(3) SUB POWER circuit

When AC input is supplied to SUB POWER circuit, start-up resister R908 and R909 detect 4 pin of iC901 voltage (VCC-IN) and activate internal start circuit of IC901. When pin 4 of IC901 voltage turns to 16V, internal control circuit starts operation and auxiliary coil voltage between 2 and 3 pin of T901 (sub transformer) is up to approx.18V, and SUB POWER circuit is activated.

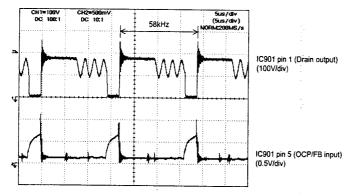
IC921 detects the load of 5V output voltage from the T901 secondary and controls the feedback current in PC901 (photocoupler) by fed back to 5 pin of IC901 (OCP/FB).

The T901 secondary provides the following DC voltages:

- ① 8.5V line: Supplied to the Heater voltage IC (IC920) and the Audio-Amp (IC601) as power source.
- © 5V line: Supplied to the Microprocessor (IC301 and IC104), USB-IC (IC701), SW-IC (IC101) and 5V CONTROL circuit as power source.



<Waveform>



Note: Above waveform is switching waveform when USB peripherals are not connected.

(4) Power management modes

When IC301 (main microprocessor) detects presence of horizontal and vertical sync signal, control signal is output from IC104 (sub microprocessor). The control signal stops MAIN POWER circuit and decrease heater voltage, and power consumption is reduced.

<Power save control signals>

Mode	Symposianal	PS1	LED	Oiit
iviode	Sync signal	IC104 pin 8	IC104 pin 13	Circuit
Normal	H,V-Sync: ON	HIGH	HIGH (Green)	All circuits are activated.
Power Management	H or V-Sync: OFF H and V-Sync: OFF	LOW	LOW (Orange)	Main power stops. (83V/32V/16V/-12V) Heater is off.

The power consumption under the power management mode is 3W or less when USB peripherals or audio equipment are not connected.

4-2. SYNC SIGNAL PROCESSING circuit

The input signal from D-SUB connector is set input condition of VIDEO IN 1/2 and sync signal by IC101 (VIDEO-SW-IC) and IC105 (SYNC-SW-IC), and input to pins 41 (H-IN) and 42 (V-IN) of IC301. The input H/V-sync signal is waveform-shaped and output from pins 39 (H-OUT) and 40 (V-OUT) of IC301, and then supplied to pins 26 (H-IN) and 27 (V-IN) of IC350 (H/V oscillation IC) to control the horizontal and vertical deflection.

The setting of signal input condition monitors H/V-sync signal applied to IC301, and output SIGNAL SELECT signal from pin 9 of IC104 and S.O.G. switching signal from pin 7 of IC104.

(1) SIGNAL SELECT signal: Set VIDEO-IN 1/2 by controlling pin 13 of IC101.

D-SUB input	IC104 pin 9
VIDEO-IN 1	LOW
VIDEO-IN 2	HIGH

(2) S.O.G. switching signal:

Set SEP/COMP, S.O.G. by controlling pin 1 of IC105.

Sync signal input	IC104 pin 7
SEP/COMP input	LOW
S.O.G. input	HIGH

NOTE: S.O.G. switching signal is switched to LOW level when the H/V-sync signal is off, and switched to HIGH level when COMP signal is input to pin 41 of IC301.

- (3) The input sync signal to IC301 is processed by SYNC SIGNAL PROCESSING circuit in IC301 as follows:
 - ① Discriminate the input sync signal type: Separate / Composite
 - ② Discriminate the sync polarity: Positive / Negative
 - ③ Detect the input sync signal presence
 - Count the frequency
 Counting criterion: X'TAL 12MHz (X301)

4-3. CONTROL circuits

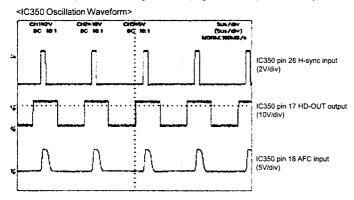
(1) HORIZONTAL/VERTICAL OSCILLATION circuit

The H/V-sync signal input to IC350 is phase-sifted and converted to the waveform in IC350. The pulse synchronized with the horizontal sync signal is output from pin 17 as horizontal drive pulse. The sawtooth wave synchronized with the vertical sync signal is output from pin 4.

The pulse output from pin 17 generates a frequency locked to the input signal under the following conditions:

- ① The horizontal sync signal is input to pin 26.
- ② The vertical sync signal is input to pin 27.
- 3 The feedback pulse (AFC pulse) of the HORIZONTAL DEFLECTION OUTPUT circuit is input to pin 18.

IC350 (UPC1888DCT) is auto-sync system and adjusts the horizontal frequency automatically make the vertical sync signal input to pin 27 trigger. In case that the AFC pulse is not input, the output pulse from pin 17 is unlocked and the horizontal picture size changes with keeping it small and picture is not synchronized.

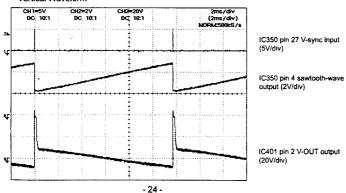


(2) VERTICAL DEFLECTION circuit

The sawtooth wave output from pin 4 of IC350 is amplified by IC401 (V-OUT-IC) and then supplied to the deflection yoke as a vertical deflection current to control the vertical deflection.

V-position is controlled by changing the DC component of the sawtooth wave output from pin 4.

<Vertical Waveform>



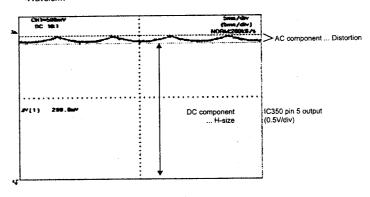
(3) HORIZONTAL SIZE and DISTORTION CONTROL circuits

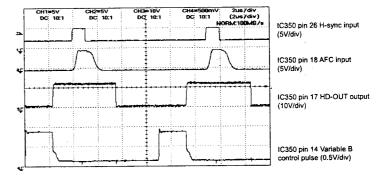
The variable B voltage control pulse synchronized with the horizontal sync signal is output from pin 14 of IC350. The control pulse makes the PRESSOR CHOPPER circuit consisted of L956, Q953 and D970 output the variable B voltage of horizontal deflection output.

The horizontal size control voltage and distortion control parabolic wave output from pin 5 are input to pin 11 and then the output pulse of pin 14 controls the horizontal size and distortion as follows:

- ① H-size: The output duty of pin 14 is varied by the DC voltage input to pin 11.
- ② Distortion: The parabolic wave (AC component) input to pin 11 is synthesized with the output pulse of pin 14.

<Waveform>





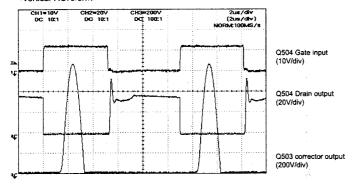
4-4. HORIZONTAL DEFLECTION circuit

(1) HORIZONTAL DRIVE circuit

The horizontal drive pulse output from pin 17 of IC350 is amplified by Q504 and T502 and then supplied to Q503 (H-OUT) base as a current.

The current is amplified by Q503 and then supplied to the deflection yoke as a horizontal deflection current to control the horizontal deflection.

<Vertical Waveform>



(2) HORIZONTAL LINEARITY CORRECTION circuit

The switching signal from IC301 controls H-LIN-COIL (L503, L504 and L507), S-correction capacitor (C510, C511, C512, C513, C514 and C557) and FET-ARRAY (IC501), and then correct linearity every frequency.

Each switching point performs horizontal linear and distortion correction as follows:

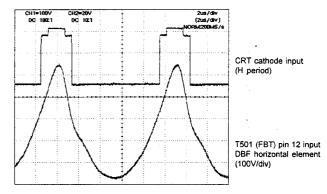
		IC301 output pin											
ALI (LLL-)	CS1	CS2	CS3	CS4	CS5	CS6	H-UN1	H-LIN2	DRIVE				
fH (kHz)	(Pin 7)	(Pin 9)	(Pin 12)	(Pin 13)	(Pin 14)	(Pin 15)	(Pin 16)	(Pin 26)	(Pin 17)				
29.5 - 34.0	LOW	LOW	LOW	LOW	LOW	LOW	LOW.	LOW	LOW				
34.1 - 41.0	LOW	LOW	HIGH	HIGH	HIGH	HIGH	LOW	LOW	LOW				
41.1 - 45.0	HIGH	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW				
45.1 - 49.0	HIGH	LOW	LOW	HIGH	LOW	LOW	LOW	HIGH	HIGH				
49.1 - 59.0	HIGH	LOW	HIGH	HIGH	LOW	LOW	LOW	HIGH	HIGH				
59.1 - 66.0	HIGH	HIGH	LOW	LOW	LOW	LOW	LOW	HIGH	HIGH				
66.1 - 73.0	HIGH	HIGH	LOW	HIGH	LOW	LOW	LOW	HIGH.	HIGH				
73.1 - 84.0	HIGH	HIGH	HIGH	LOW	LOW	LOW	LOW	HIGH	HIGH				
84.1 - 88.5	HIGH	HIGH	HIGH	LOW	HIGH	LOW	LOW	HIGH	HIGH				
88.6 - 97.0	HIGH	HIGH	HIGH	HIGH	LOW	LOW	HIGH	HIGH	HIGH				
97.1 - 115.0	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH				
115.1-140.0	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH				

4-5. DYNAMIC BEAM FOCUS (DBF) circuit

(1) H-DBF

The parabolic wave of horizontal period is output from pin 9 of IC350 (HDFO) and then amplified by Q516 and Q517. It increases up to approx. 500Vp-p by T503 and synthesized with V-parabolic wave and then applied to pin 12 (DF) of T501 (FBT).

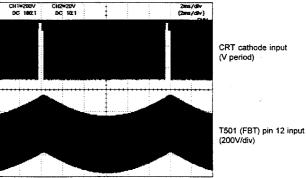
<H-DBF Waveform>



(2) V-DBF

The parabolic wave of vertical period is output from pin 8 of IC350 (VDFO) and then amplified by Q520. It is synthesized with H-parabolic wave.

<V-DBF Waveform>



4-6. VIDEO circuit

(1) Pre-amp

The video signal from D-SUB connector via IC101 (SW-IC) is input to pins 1 (R-IN), 3 (G-IN) and 6 (B-IN) of IC201 pre-amplifier. This video signal is clamped by clamp signal input to pin 13 of IC201. The blanking signal input to pin 14 is synthesized with the clamped signal and then output from pins 29 (R-OUT), 27 (G-OUT) and 25 (B-OUT) respectively. The blanking signal is synthesized signal of V-BLK and H-BLK signals.

V-BLK signal: Remove the raster retrace line. H-BLK signal: Remove the side raster rolling.

I²C-BUS controls D/A converter in IC201 as follows:

① Contrast

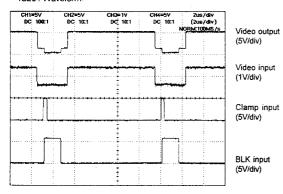
2 Sub-brightness

3 R/G/B drive

OSD contrast

⑤ D/A output voltage for the CUT-OFF circuit

<IC201 Waveform>



(2) ABL

DC voltage input to pin 7 of IC201 controls the amplitude of the video output signal.

0.5V: The amplitude of the video output signal is 0%.

4.5V: The amplitude of the video output signal is 100%. (ABL is not activated.)

DC voltage is output by detecting the current input to T501 (FBT). This DC voltage controls the amplitude of the video output signal not to input more than specific current into FBT by inputing 7 pin of IC201.

(3) VIDEO-OUT and CUT-OFF circuits

The video signal input to pins 9 (R-IN), 8 (G-IN) and 11 (B-IN) of IC202 (VIDEO-OUTPUT) is amplified reversely and then output from pins 3 (R-OUT), 5 (G-OUT) and 1 (B-OUT) respectively.

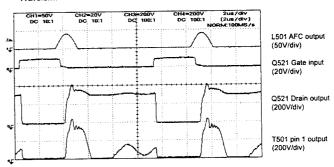
The R/G/B-cut-off and brightness D/A control voltages output from pins 18-21 of IC201 pre-amplifiers are amplified by IC204 (CUT-OFF-IC), and then added to the video signal from IC202 and supplied to the CRT cathode grid.

4-7. HIGH VOLTAGE CONTROL / OUTPUT circuit

The AFC pulse output from the HORIZONTAL DEFLECTION OUTPUT (L501) applied to pin 3 of IC502 (HV-CONT-IC) and then a control pulse synchronized with the frequency of the AFC pulse is output from pin 1 of IC502 and operate Q521 (HV-OUT).

For stabilizing high voltage output control, this circuit is to detect a feedback voltage from pins 10 and 11 of T501 (FBT) and feed back to pin 4 of IC502, change the output duty of pin 1 of IC502, and control the high voltage change due to the brightness changes.

<Waveform>



4-8. PROTECTION circuit

This circuit is composed of the following protection circuits to prevent a damage to the monitor and X-ray radiation when the monitor is inoperative.

When the circuit is in the following cases, pin 19 of IC350 (XRAY) turns to 5V and then the horizontal drive pulse output from pin 17 and the variable B control pulse output from pin 14 turn to "LOW" level (0V). It makes the HORIZONTAL DEFLECTION OUTPUT and the HIGH VOLTAGE OUTPUT circuits stop.

The signal that the X-RAY PROTECTION circuit is activated is sent to IC301 (Main Microprocessor) from IC350 by I²C-BUS when pin 19 turns to 5V, IC301 receives the signal and then PS1 signal of pin 8 of IC104 turns to "LOW" level so that the MAIN POWER circuit is turned off.

In case that the PROTECTION circuit is activated and the HORIZONTAL DEFLECTION OUTPUT, HIGH VOLTAGE OUTPUT and MAIN POWER circuits are turned off, turn OFF and ON the Power Switch to recover.

The PROTECTION circuit operates in the following cases:

① +B9 line:

The voltage is 270V or more.

② X-RAY PROTECTION circuit:

The high voltage is 29.0kV or more.

3 ARC LIMIT circuit:

The beam current in FBT is 3.0mA or more.

4-9. CRT CORRECTION circuit

Following adjustment and functions are for CRT correction.

- ① DYNAMIC/STATIC-CONVERGENCE
- ② TILT-DY
- 3 NS-RRC
- LANDING (TR/TL/BR/BL)

(1) DYNAMIC/STATIC-CONVERGENCE

The control voltage (AC) from IC702 is amplified by IC708 and applied to CONVERGENCE-COIL built-in CRT deflection yoke. It makes any points of DYNAMIC-CONVERGENCE change.

The DC voltage from pins 12 and 13 of IC701 is synthesized with the control waveform from IC702 and vary the DC component. It makes whole screen of STATIC-CONVERGENCE change.

(2) TILT-DY

DC voltage from pin 14 of iC701 is amplified by 7 pin of IC705 and applied to TILT-COIL of CRT deflection yoke. It makes CRT and DY tilt change.

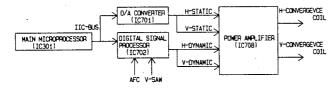
(3) NS-RRC

DC voltage from 15 pin of IC701 is amplified by pin 3 of IC705 and applied to NS-RRC COIL. It makes discoloration caused by vertical direction magnetic field for CRT face detected by IC304 (Terrestrial magnetic sensor) on PWB-MAIN.

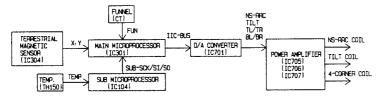
(4) LANDING (4 corner coils)

DC voltage from pins 4-7 of IC701 is amplified by pins 3 and 7 of IC706 and IC707, and applied to 4 corner coils. It makes discoloration caused by horizontal direction magnetic field for CRT face detected by IC304 (Terrestrial magnetic sensor) on PWB-MAIN, and CRT funnel temperature and surrounding temperature detected by temperature sensor.

<BLOCK DIAGRAM for DYNAMIC / STATIC-CONVERGENCE adjustment>



<BLOCK DIAGRAM for TILT-DY / NS-RRC / LANDING adjustment>



4-10. AUDIO circuit

The audio signal from CN602 (AUDIO-IN) is amplified by IC601 (AUDIO-AMP) and output to Speaker and Headphone lack.

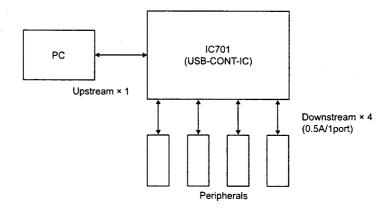
The VR voltage (0-1.2V) from pin 9 of IC601 switch output of pins 6, 10, 11 and 12 of IC104 to HIGH and LOW to control the volume.

IC601 is active under the power management mode.

	Input Voltage		IC104 o	utput pir	1
Level	IC601 pin 9	Pin 6	Pin 10	Pin 11	Pin 12
0	0.020	LOW	LOW	LOW	LOW
1	0.046	HIGH	LOW	LOW	LOW
2	0.073	LOW	HIGH	LOW	LOW
3	0.104	HIGH	HIGH	LOW	LOW
4	0.135	LOW	LOW	HIGH	LOW
5	0.172	HIGH	LOW	HIGH	LOW
6	0.211	LOW	HIGH	HIGH	LOW
7	0.256	HIGH	HIGH	HIGH	LOW
8	0.292	LOW	LOW	LOW	HIGH
9	0.346	HIGH	LOW	LOW	HIGH
10	0.404	LOW	HIGH	LOW	HIGH
11	0.473	HIGH	HIGH	LOW	HIGH
12	0.546	LOW	LOW	HIGH	HIGH
13	0.636	HIGH	LOW	HIGH	HIGH
14	0.736	LOW	HIGH	HIGH	HIGH
15	0.861	HIGH	HIGH	HIGH	HIGH

4-11. USB circuit

This circuit detects connecting condition of the upstream port (CN701 UP) from PC and the downstream port (CN702 and CN703) from peripherals and communicate with PC. USB cable (series A/B) is composed of V, GND, +D and -D signals. The condition of connection is judged from by detecting data transfer rate of peripherals connected by +D and -D combination at IC701.



5. SERVICE PARTS LIST

WARNING!

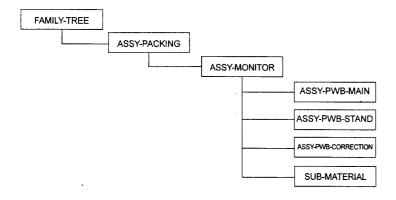
The components identified by "!" in this manual are critical for safety.

Replace only with part number specified .

< Contents >

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< Structure >



ELECTRICAL PARTS LIST

< Abbreviations in PART section >

Abbreviation	Meaning
R-C	Resistor-Carbon
R-MB	Resistor-Metal
R-FUSE	Resistor-Fuse
c-c	Capacitor-Ceramic
C-E	Capacitor-Electrolytic
C-PP	Capacitor-Polypropylene
C-MF	Capacitor-Multilayer Metallized Polyester Film
D	Diode
ZO	Zener Diode
TR	Transistor
PHC	Photo Coupler
PTH	Positive Thermistor
HDT	Horizontal Drive Transformer
FBT	Flyback Transformer
VR	Variable Resistor
sw	Switch
SWT	Switching Transformer

< Marks in DESCRIPTION section >

< Resistor >

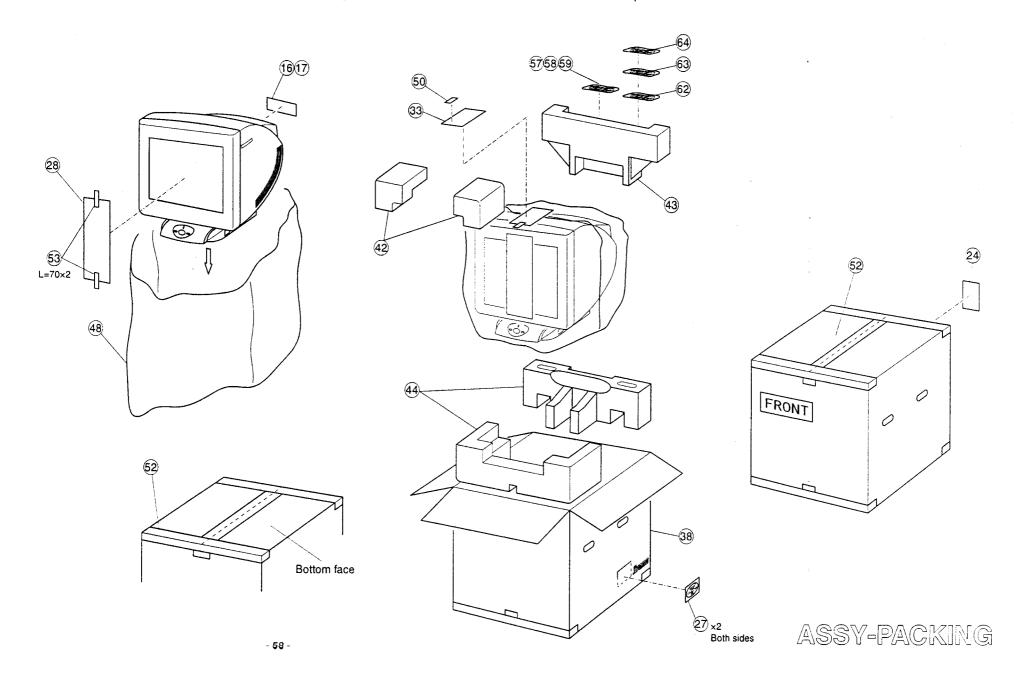
Mark	Tolerance
F	± 1%
J	± 5%
K	±10%

< Capacitor >

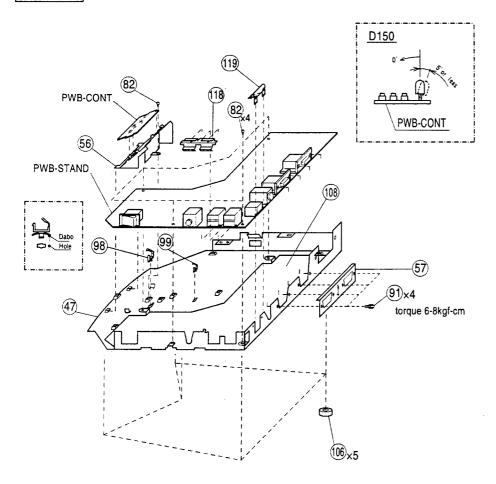
Mark	Tolerance
H J K M P	± 3% ± 5% ± 10% ± 20% +100% - 0% + 80%
	- 20%

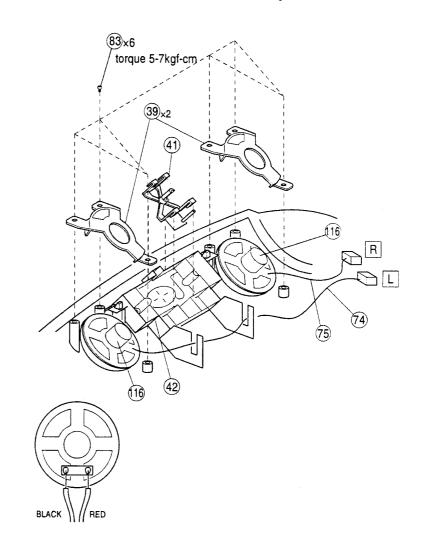
6. EXPLODED VIEW

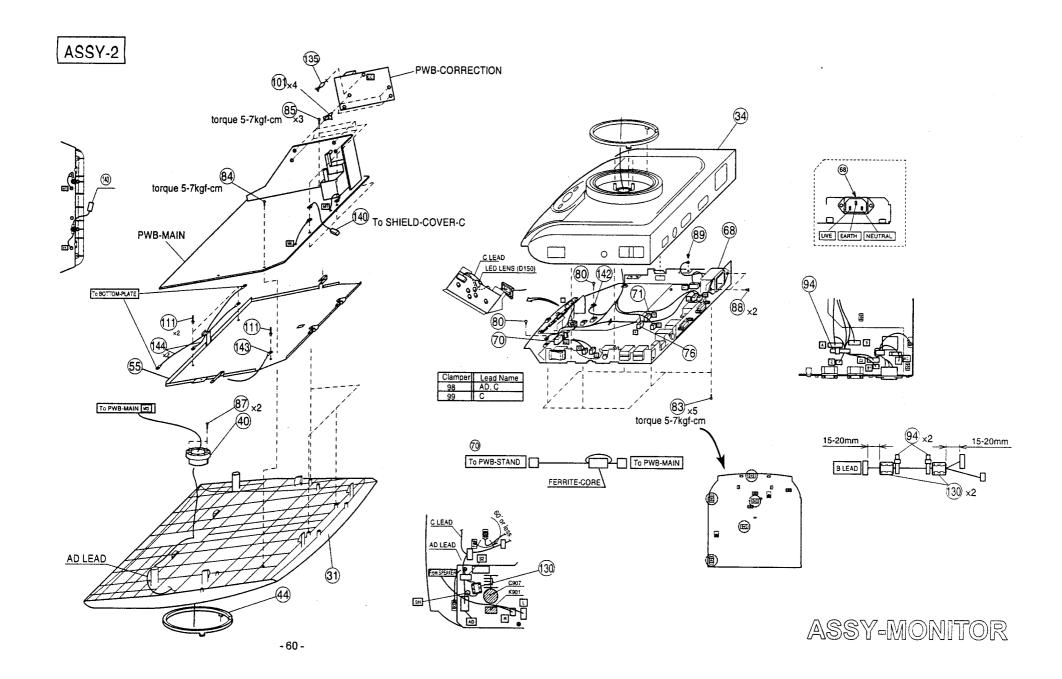
Note: The numbers in this exploded view are the same as the reference numbers in the Chapter 5.

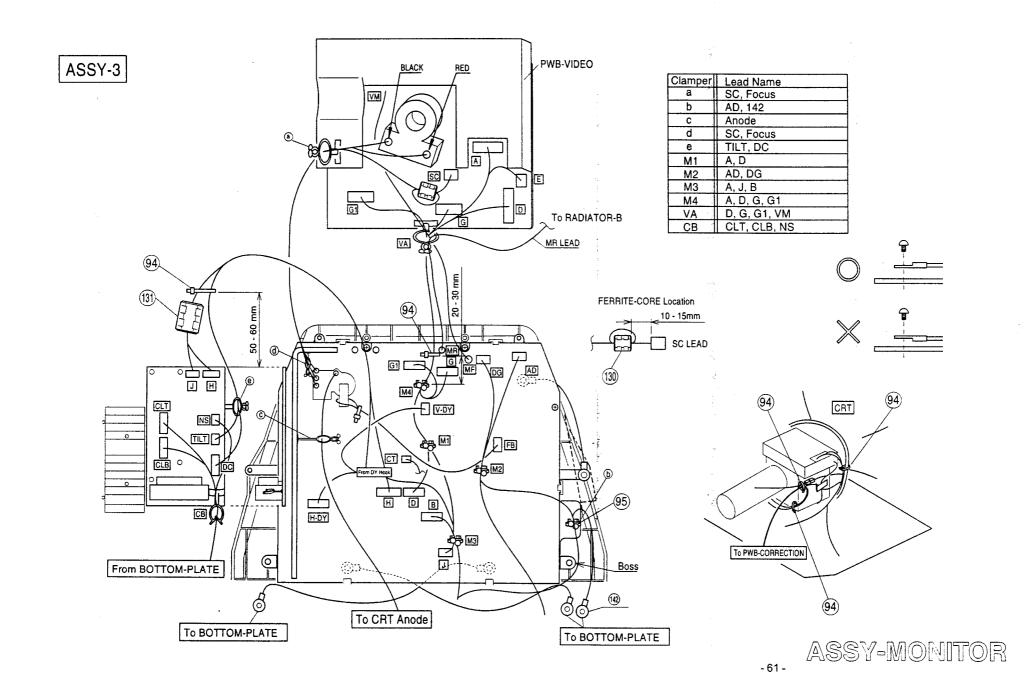


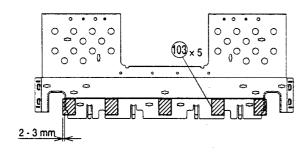


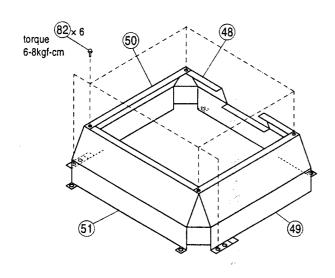


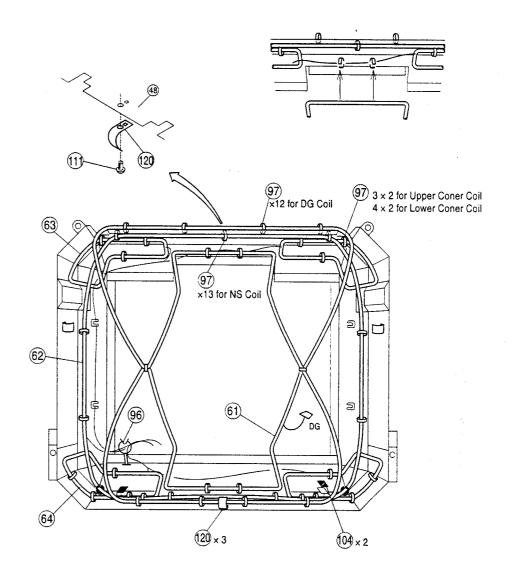




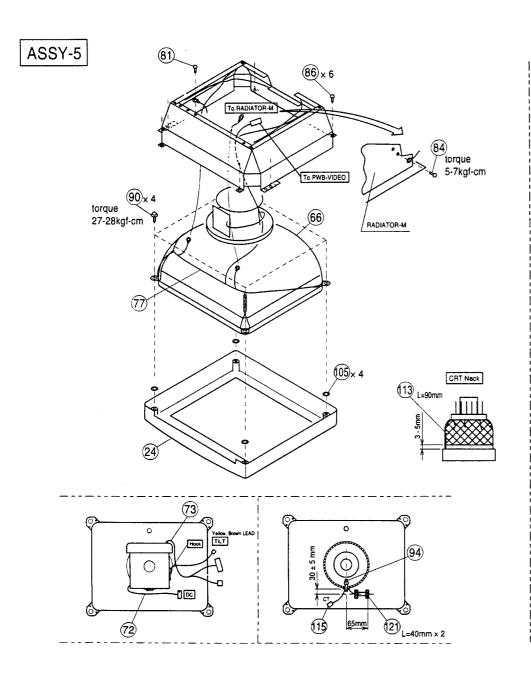




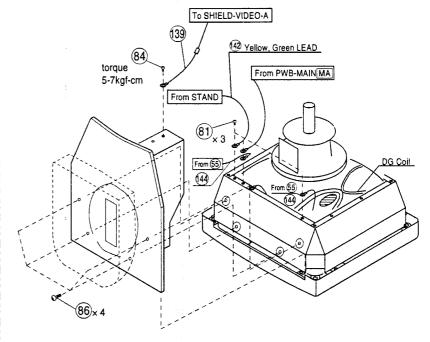




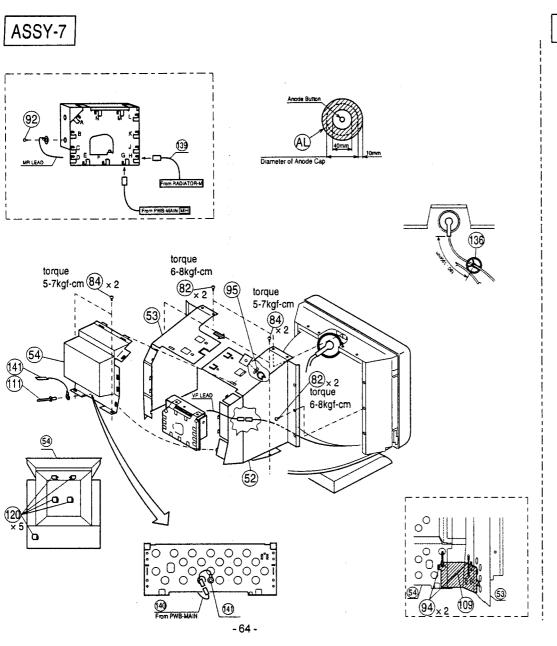
ASSY-MONITOR



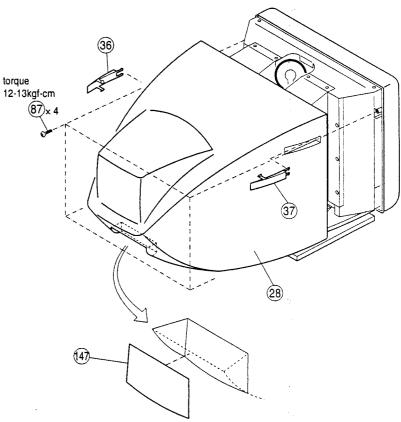
ASSY-6



ASSY-MONITOR

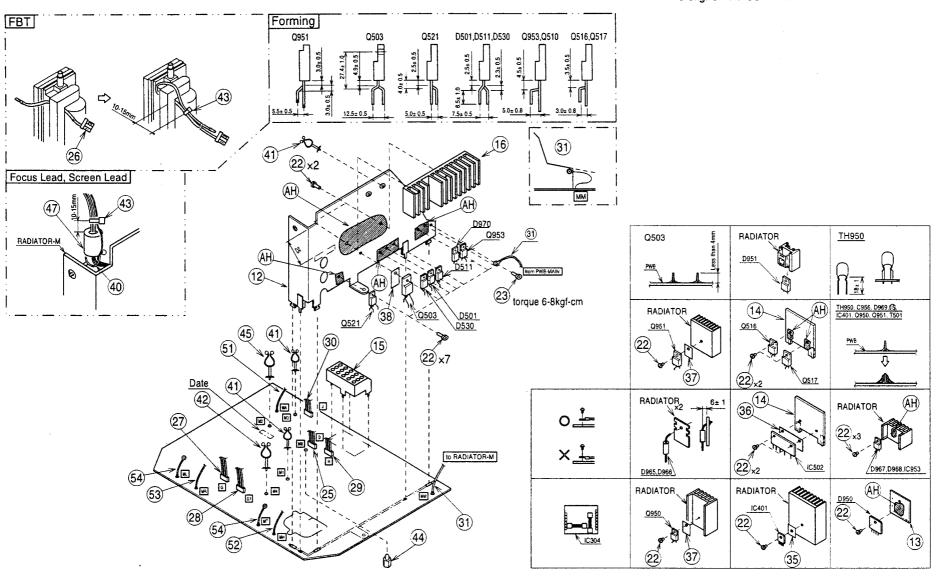


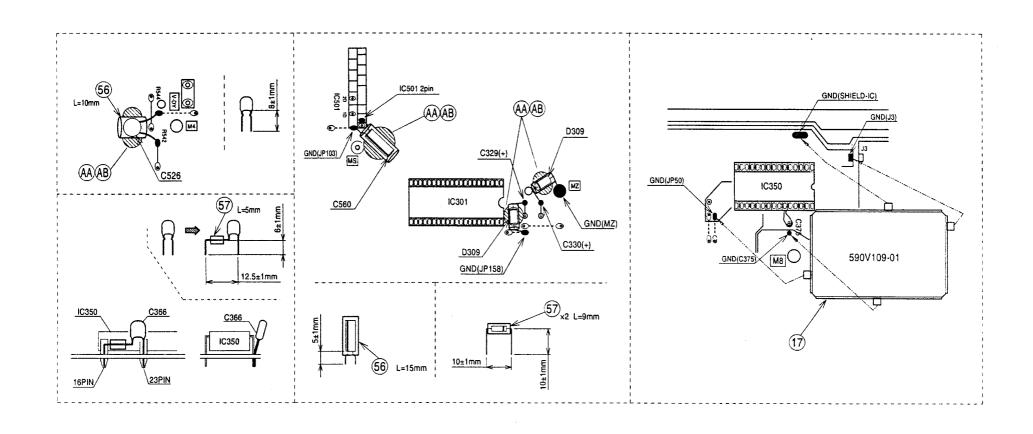
ASSY-8



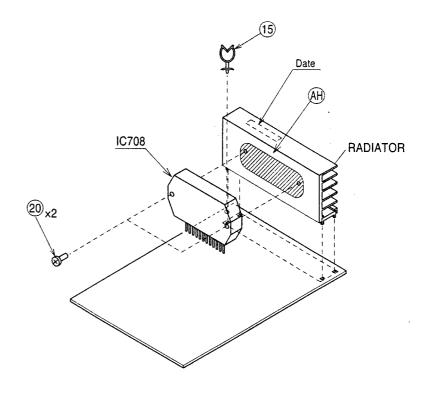
ASSY-MONITOR

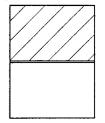
Note: Except where indicate otherwise, all screw torcue is 3-5kgf-cm in ASSY-PWB-MAIN.



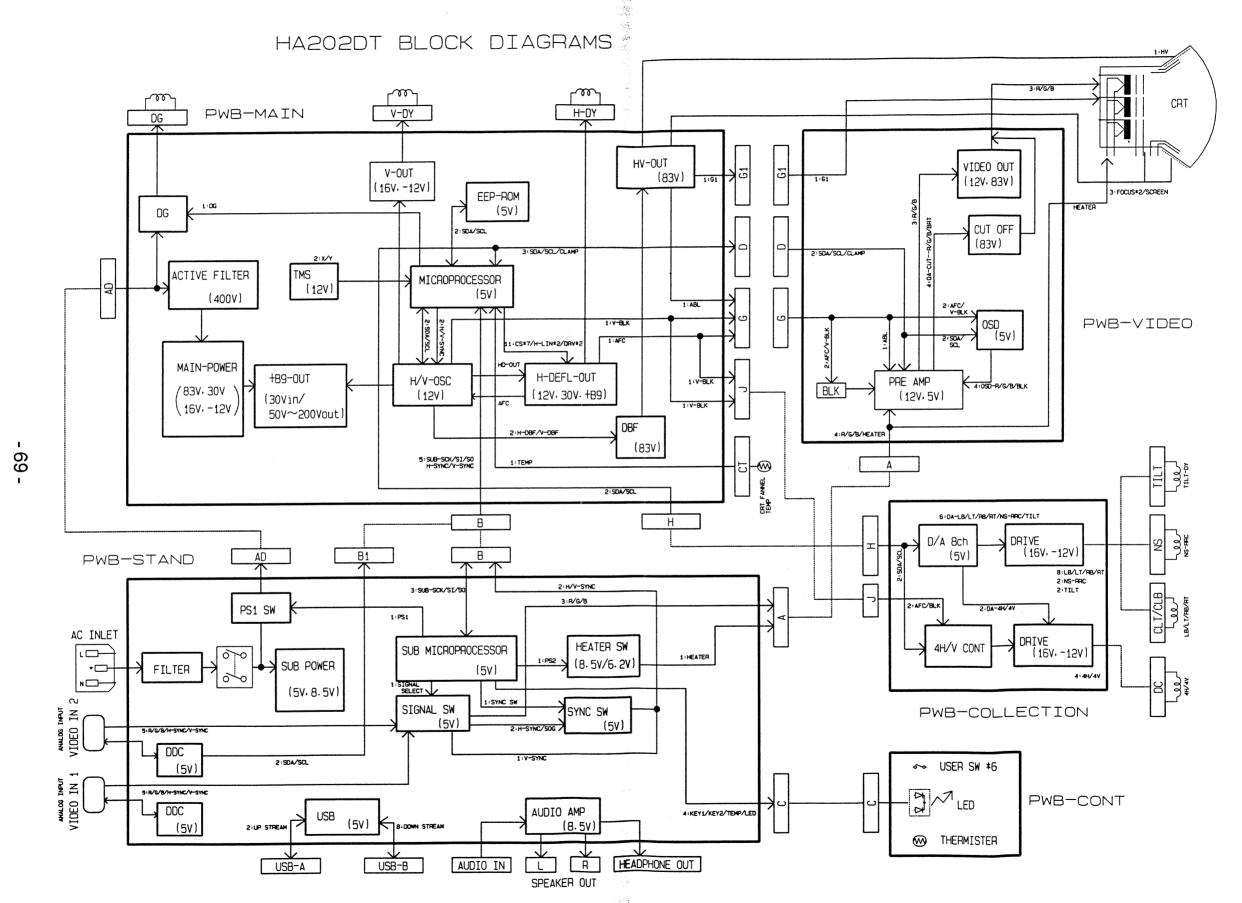


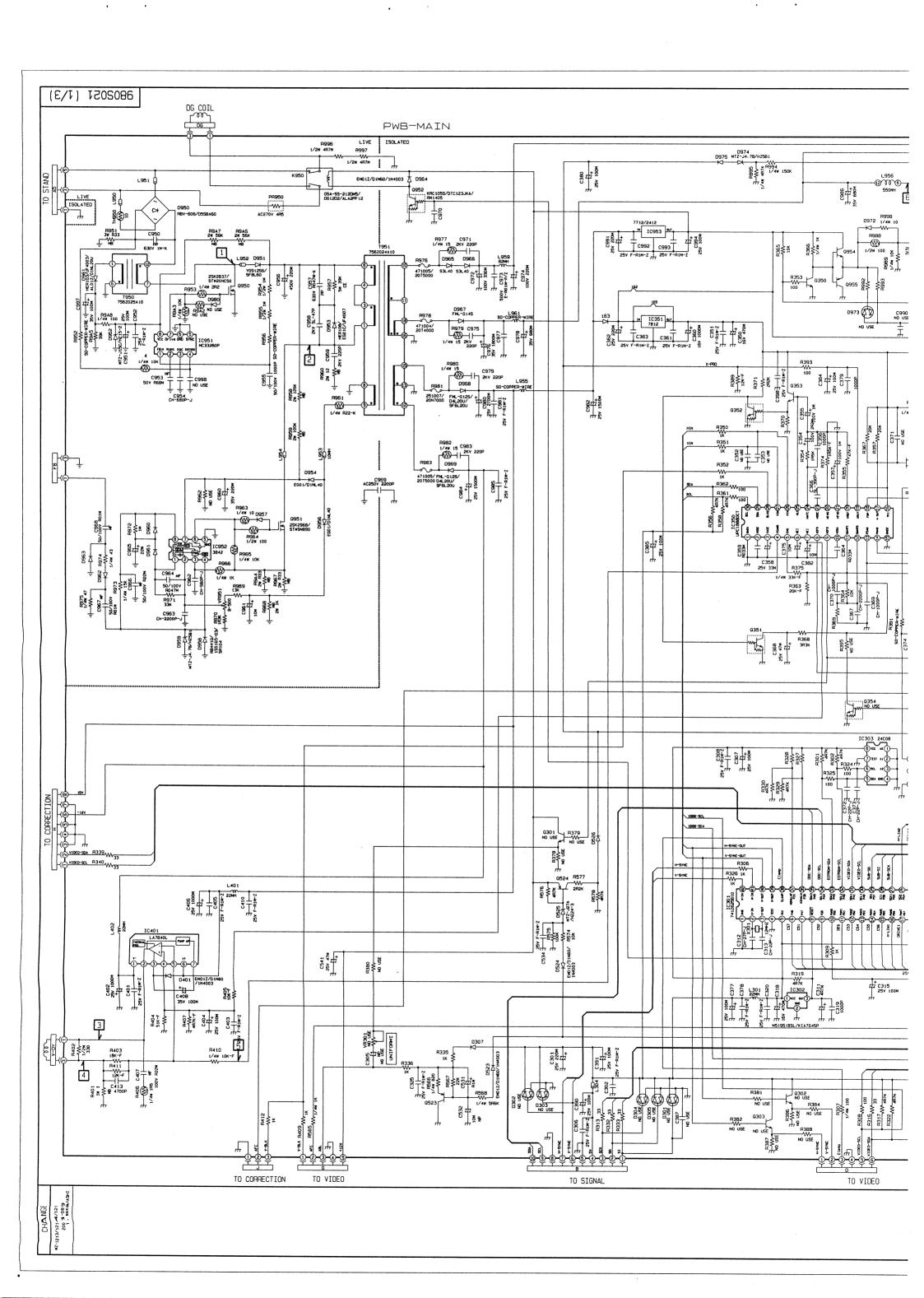
Note: Except where indicate otherwise, all screw torcue is 3-5kgf-cm in ASSY-PWB-STAND. (11) 0000 RADIATOR IC202 S4 RADIATOR PWB-CONT PWB-VIDEO TH901 RADIATOR Ů VA PWB-STAND CN701(2), CN702(4), CN703(4), CN601(2), CN602(2) TH901, CN203, CN204 (2, G1, KG, G2, KR, H1, H2, KB, 1) ASSY-PWB-STAND

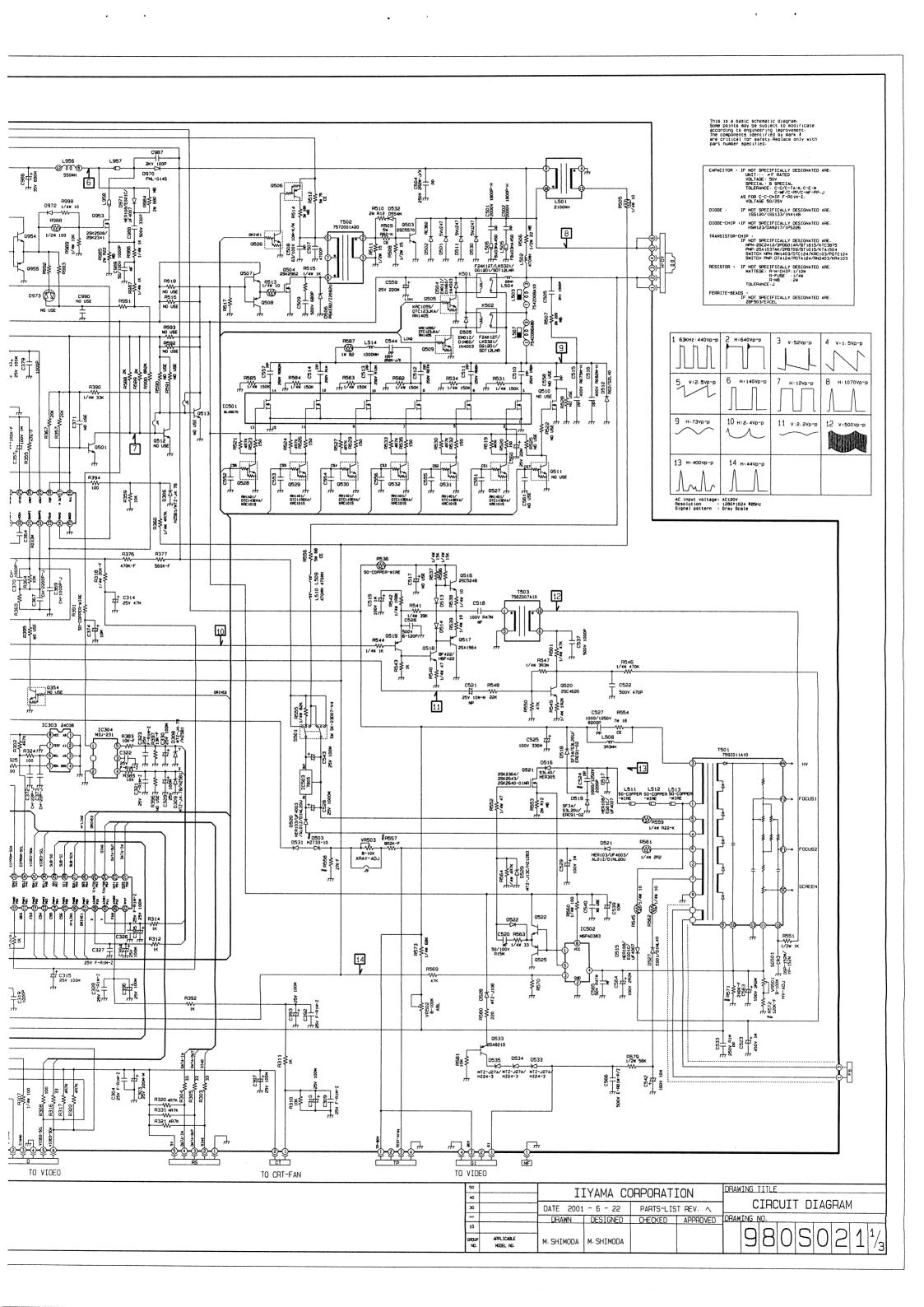


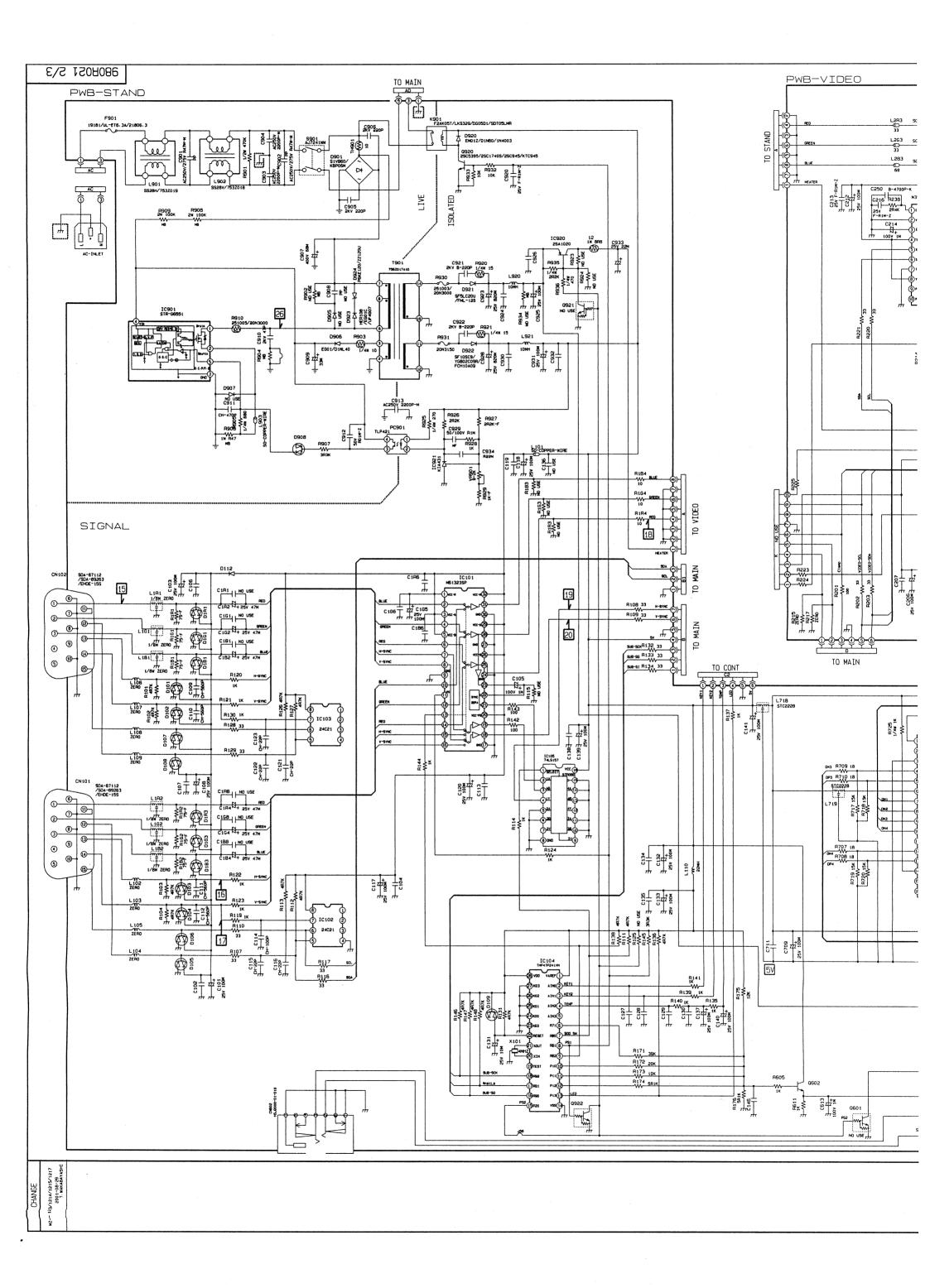


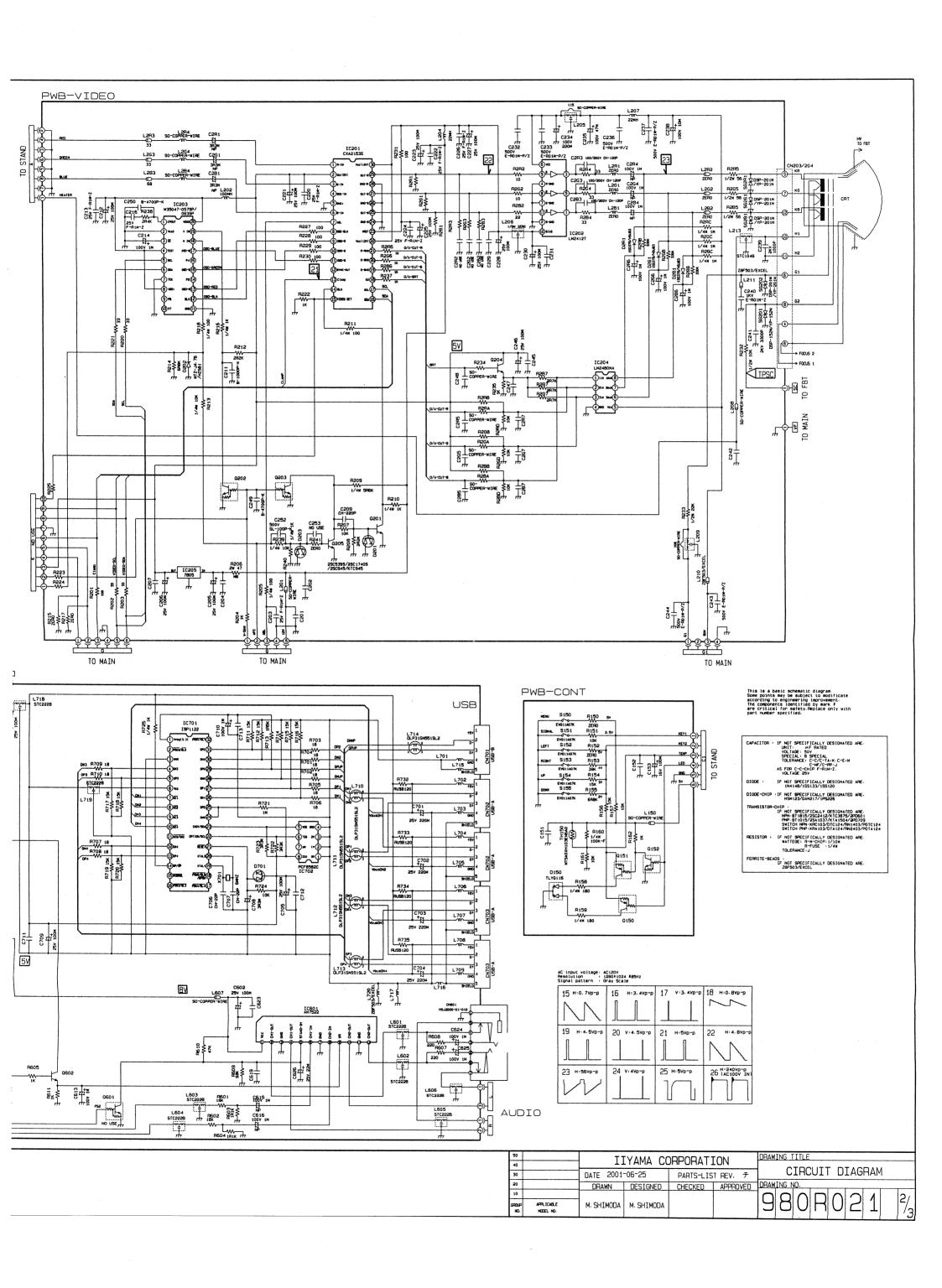
ASSY-PWB-CORRECTION

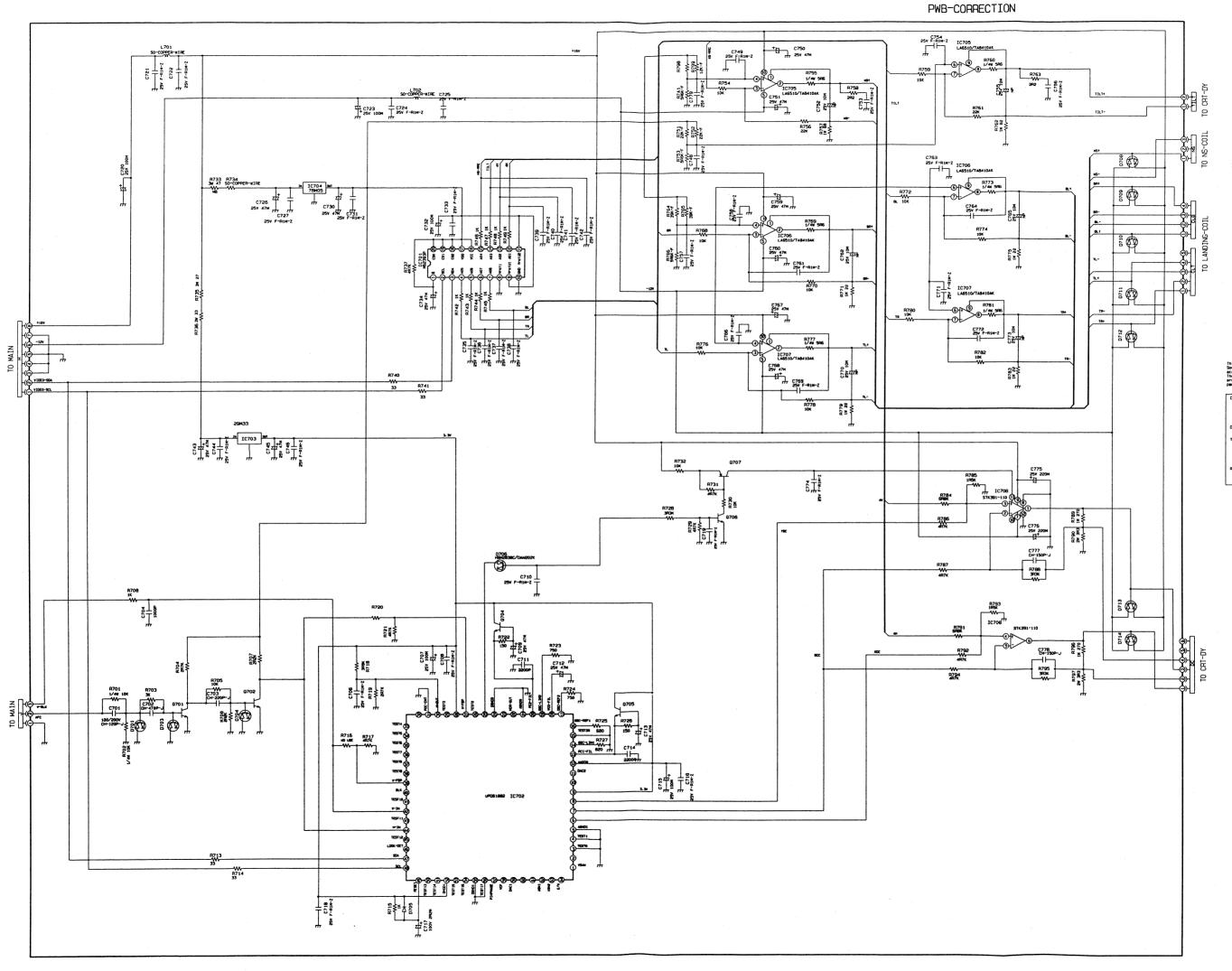












DWG. TITLE : FAMILY-TREE

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1			ASSY-PACKING	(HNE/JF)	T985T042-20	T	
1		·	ASSY-PACKING	(HNB/JF)	T985T042-30	1	
1			ASSY-PACKING	(LNN/JF)	T985T042-40	1	
1			ASSY-PACKING	(HNE/EY)	T985T042-50		
1			ASSY-PACKING	(HNB/EY)	T985T042-60		
1			ASSY-PACKING	(LNN/EY)	T985T042-70	1	
1			ASSY-MONITOR		T950R116-20	1	
1			ASS-PWB-MAIN		T950T068-10	1	
1			ASSY-PWB-STAND		T950T069-10	1	
1			ASSY-PWB-CORRECTION		T950V071-10	1	
1			SUB-MATERIAL		951V001-10	1	

DWG. TITLE : ASSY-PACKING

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1		16	RATING-PLATE	(JF)	706Z069-01		!
1		17	RATING-PLATE	(EY)	7062069-02		1
1		24	SERIAL-LABEL		851T013-46		1
2		27	LABEL		851Z018-01		
1		28	ATTENTION-SHEET		8702112-01		1
1		33	OPERATION-MANUAL		8702166-01		1
1		38	PACKING-CASE		800Z046-02		
1		42	CUSHION-TOP		803\$065-03		
1		43	CUSHION-TOP		803S065-01		
1		44	CUSHION-BOTTOM		803S065-04		
1		48	PACKING-BAG		831V005-12		
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#		52	CARTON-TAPE	NO.3201/NO.3303M/4266/123 L=4300mm	830Z012A01		
#		53	HOLDING-TAPE	NO.3800A L=140mm	830Z005A01		
1		57	AC-CORD	(HNE)	500Z005-02		1
1		58	AC-CORD	(HNB)	5002007-02		ı
1		59	AC-CORD	(LNN)	500Z012-01		1
1		62	SIGNAL-CABLE		242Z013-01		ı
1		63	SIGNAL-CABLE		242Z027-01		ı
1		64	AUDIO-CABLE		242Z028-01	1	ı

				T		1	F
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7		15 20	CLAMPER	SHK-8 MP-SEMS-B3*18MC-S	540Z080A02 630Z301B16		1
		C701	C-C-CHIP	100/200V CH-120P-J	410Z121A54	├	
-		C702	C-C-CHIP	50V CH-470P-J	410Z471B14	 	<u> </u>
		C703 C704	C-C-CHIP C-C-CHIP	50V CH-220P-J 150V B-1000P-K	4102221814		
-	-	C706	C-C-CHIP	25V F-RIM-Z	411Z104B44	├	-
		C707	C-E	25V 100M-M	470Z101T43		
- 		C708 C709	C-C-CHIP C-E	25V F-R1M-Z 25V 47M-M	411Z104B44 470Z470T43	ļ.—	
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<u> </u>		C711	C-C-CHIP C-E	50V 8-2200P-K	4112222814		
	_	C713	C-E	25V 47M-M	4702470143		
-		C714 C715	C-C-CHIP C-E	50V B-2200P-K	411ZZZZB14 470Z101T43		
+	_	C718	C-C-CHIP	25V F-RTM-Z	411Z104B44	ļ	
		c717	C-E	100V 2R2M-M	480Z 229883		
 	-	C718	C-C-CHIP	25V F-R1M-Z 25V F-R1M-Z	4112104844 4112104844		
		C720	C-E	25V 100M-M	470Z101T43		
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-		C727 C730	C-C-CHIP C-E	25V F-R1M-Z 25V 47M-M	411Z104B44 470Z470T43		
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-		C734 C735	C-E C-C-CHIP	25V 47M-M 125V F-R1M-Z	470Z470T43 411Z104B44		
÷		C736	C-C-CHIP	25V F-R1M-Z	411Z104B44		
		C737	C-C-CHIP	Z5V F-R1M-Z	4112104844		
1		C738 C739	C-C-CHIP	25V F-RIM-Z 25V F-RIM-Z	4112104844 4112104844		
\vdash	\vdash			 	· · · · · · · · · · · · · · · · · · ·		
-		C740 C741	C-C-CHIP	25V F-R1M-Z 25V F-R1M-Z	411Z104B44		
+		C742	C-C-CHIP	25V F-R1M-Z	4112104844		
-		C743 C744	C-E C-C-CHIP	25V 47M-M 25V F-R1M-Z	470Z470T43 411Z104B44		
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		-					
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듸			C-E	25V 220M-M 50V CH-150P-J	470Z221T43	=	
+			C-C-CHIP C-C-CHIP	50V CH-150P-J 50V CH-150P-J	410Z151814 410Z151814		
-		C779	C-C-CHIP	25V F-R1M-Z	411Z104B44		
+			D-CHIP	HSM123/DAN217/1PS226 HSM123/DAN217/1PS226	742Z017A24 742Z017A24		
•		0704	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
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		0712	D-CHIP	HSM123/DAN217/1P9226	7422017A24		
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-				78M05	741Z537A15 741Z513A14		
1		C705	ic	LA6510/TA8410AK	741Z217A20		
끆			ic .	LA8510/TA8410AK LA8510/TA8410AK	741Z217A20 741Z217A20	\rightarrow	
		C708	c	STK391-110	741Z425A10		
			SO-COPPER-WIRE		990Z001A11		
1				BT1815/2SC2412/KTC3875/2PD801	740Z151A34		
1				8T1815/2SC2412/KTC3875/2PD601	740Z151A34		
			TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34		

Q'TY	REV.	REF NO.	PART TR'CHIP''	DESCRIPTION BT1615/2SC2412/KTC3875/2PD601	PART NO. 7402151A34	PRICE	REMARI
÷	-	Q706	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	7402151A34		
÷		Q707	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34		
1		R701	R-C	1/4W 10K-J	613Z103C11		
1		R702	R-C	1/4W 10K-J	613Z103C11		
1		R703	R-M-CHIP	1/10W 3K-J	613Z302C24		
+	L-	R704 R705	R-M-CHIP R-M-CHIP	1/10W 2R7K-J 1/10W 10K-J	613Z272C24 613Z103C24		
+		R706	R-M-CHIP	1/10W 2R2K-J	613Z222C24		
÷	-	R707	R-M-CHIP	1/10W 2R2K-J	613Z222C24		
÷		R708	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R713	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R714	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R715	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R717	R-M-CHIP	1/10W 4R7K-J 1/10W 3R9K-J	613Z472C24 613Z392C24		
+		R718	R-M-CHIP R-M-CHIP	1/10W 3R9K-J 1/10W 2R7K-J	613Z272C24		
+		R721	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
÷		R722	R-M-CHIP	1/10W 150-J	613Z151C24	<u> </u>	
1	-	R723	R-M-CHIP	1/10W 750-J	613Z751C24		
1		R724	R-M-CHIP	1/10W 750-J	613Z751C24		
1		R725	R-M-CHIP	1/10W 680-J	613Z681C24		
1		R726	R-M-CHIP	1/10W 150-J	613Z151C24		
1		R727	R-M-CHIP	1/10W 820-J	613Z821C24		
1		R728	R-M-CHIP	1/10W 3R3K-J	613Z332C24		
+		R729 R730	R-M-CHIP	1/10W 4R7K-J 1/10W 10K-J	613Z472C24 613Z103C24	\vdash	
+		R731	R-M-CHIP	1/10W 10K-J	613Z472C24		
+	-	R732	R-M-CHIP	1/10W 10K-J	613Z103C24		
÷		R733	R-MB	3W 47-J	612Z470C47	L	
1		R734	SO-COPPER-WIRE	<u> </u>	990Z001A11		
1		R735	R-MB	3W 27-J	612Z270C47		
1		R736	R-MB	3W 33-J	612Z330C47	\Box	
1	-	R737	R-M-CHIP	1/10W 4R7K-J 1/10W 33-J	613Z472C24		
+		R740 R741	R-M-CHIP R-M-CHIP	1/10W 33-J 1/10W 33-J	613Z330C24 613Z330C24		
1	-	R741	R-M-CHIP	1/10W 1K-J	613Z102C24		
÷		R743	R-M-CHIP	1/10W 1K-J	613Z102C24		
i		R744	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R745	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R746	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R747	R-M-CHIP	1/10W . 1K-J	613Z102C24		
+		R748 R749	R-M-CHIP	1/10W 1K-J	613Z102C24 613Z102C24		
+		R751	R-M-CHIP	1/10W 22K-F	613Z223C54		
÷		R752	R-M-CHIP	1/10W 22K-F	613Z223C54		
1		R753	R-M-CHIP	1/10W 5R6K-F	613Z562C54		
1		R754	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R755	R-C	1/4W 5R6-J	613Z569C11		
1		R756	R-M-CHIP	1/10W 22K-J	613Z223C24		
1	_	R757	R-MB	1W 68-J 1/10W 2R2-J	612Z680C27 613Z229C24		
1	-	R758 R759	R-M-CHIP	1/10W 10K-J	613Z103C24		
÷	-	R780	R-C	1/4W 5R6-J	613Z569C11		
<u> </u>	 	R761	R-M-CHIP	1/10W 22K-J	613Z223C24		
1		R762	R-MB	1W 82-J	612Z820C27		
1		R763	R-M-CHIP	1/10W 2R2-J	613Z229C24		
1		R764	R-M-CHIP	1/10W 39K-F	613Z393C54		
1		R765	R-M-CHIP	1/10W 39K-F	613Z393C54		
+	 	R766	R-M-CHIP R-M-CHIP	1/10W 5R6K-F 1/10W 10K-J	813Z562C54 613Z103C24		
÷	-	R769	R-C	1/4W SR6-J	613Z569C11		
÷		R770	R-M-CHIP	1/10W 10K-J	613Z103C24		
÷	 	R771	R-MB	1W 22-J	612Z220C27		
1		R772	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R773	R-C	1/4W 5R6-J	613Z569C11		
1		R774	R-M-CHIP	1/10W 10K-J	613Z103C24		
1	ļ	R775	R-MB	1W 22-J 1/10W 10K-J	612Z220C27 613Z103C24		
+	├	R776 R777	R-M-CHIP R-C	1/10W 10K-J 1/4W 5R6-J	613Z569C11	\vdash	
÷	\vdash	R778	R-M-CHIP	1/10W 10K-J	613Z103C24		
i	_	R779	R-MB	1W 22-J	612Z220C27		
i		R780	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R781	R-C	1/4W 5R6-J	613Z569C11		
1	Щ	R782	R-M-CHIP	1/10W 10K-J	613Z103C24		
1	-	R783	R-MB	1W 22-J 1/10W 6R8K-J	612Z220C27 613Z682C24		
1		R784 R785	R-M-CHIP R-M-CHIP	1/10W BR8K-J	613Z152C24		
1	 	R786	R-M-CHIP	1/10W 1R5K-J	613Z472C24		
÷	\vdash	R787	R-M-CHIP	1/10W 4R7K-J	513Z472C24		
1	\Box	R788	R-M-CHIP	1/10W 3R3K-J	613Z332C24		
1		R789	R-MB	IW 270-J	612Z271C27		
Τ		R790	R-MB	2W 3R3-J	612Z339C37		
1	ļ	R791	R-M-CHIP	1/10W 6R8K-J 1/10W 4R7K-J	613Z682C24		
+	-	R792 R793	R-M-CHIP R-M-CHIP	1/10W 4R/K-J	613Z152C24		
-	 	R794	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
+	\vdash	R796	R-M-CHIP	1/10W 3R3K-J	613Z332C24		
÷	_	R796	R-MB	1W 270-J	612Z271C27		
1		R797	R-MB	2W 3R3-J	612Z339C37		
Τ		R799	R-M-CHIP	1/10W 12K-F	613Z123C54		
1		R7A1	R-M-CHIP	1/10W 5R6K-F	613Z562C54		
1			RADIATOR	60*28.5*15	790Z032A10	 	
1		CLB	CONNECTOR	A2501WV2-4P	452Z029C10		
+		CLT	CONNECTOR	A2501WV2-5P A2501WV2-6P	452Z029D10 452Z029E10		
1		H	CONNECTOR	A2501WR2-8P	4522048G10		
	 	H	CONNECTOR	A2501WR2-3P	452Z046B10		-
- -	 	NS	CONNECTOR	A2501WV2-3P	4522029810	-	-
		TILT	CONNECTOR	A2501WV2-2P	452Z029A10		
1							

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1		12	RADIATOR-M		5908152-02		
7		13	RADIATOR	1	590V115-01		ļ
2		14	RADIATOR		590V097-03		
		15 16	SHIELD-IC RADIATOR	30*106*40	5901090-01 790Z031A10		
+		17	SHIELD-IC-C	30 106 40	590V109-01	 -	ļ
20		22	SCREW	MP-SEMS-W3*10MC-S	630Z401B10		
7		23	SCREW	BTV-SEMS-W3*8MC-S	631Z421B08	 	
1		25	LEAD-CONNECTOR		2461096-03		1
		26 27	LEAD-CONNECTOR		246T096-06		1
		28	LEAD-CONNECTOR		2461096-07		1
-i 		29	LEAD-CONNECTOR		2461096-09		
1		30	LEAD-CONNECTOR		2461096-10	<u> </u>	<u> </u>
1		31	LEAD-WIRE		246Z001-01		
-		35 36	COOL-SHEET		222V024-01 222V025-01		!
-		37	COOL-SHEET	M-20/TC-20AG	222Z001A01		
1		38	COOL-SHEET	M-20	222Z001A02	 	
1		40	CLAMPER	STL-250-8-01	540Z037A03		ı
3		41	CLAMPER	STL-450-12-01	540Z037A13		1
7 2		42 43	CLAMPER CABLE-TIES	STL-450-20-01 GT-100M/TSL-100-M/YJ-100	540Z037A15 540Z089A01		!
-		44	SPACER	TCBS-8/STBS-8	540Z069A01		1
+ 1		45	CLAMPER	SHK-12	540Z080A01		1
1		47	FERRITE-CORE	BP53RB/FSQB162RN/E1620MRT/W5T	755Z902E10		
		51	LEAD-CONNECTOR		2461096-11		
1		52	LEAD-CONNECTOR		2461096-15		1
1		53	LEAD-CONNECTOR		2461096-14		!
2		54	LEAD-CONNECTOR		2461096-13		1
*		56 57	UL-TUBE UL-TUBE	AWG-4 L=25mm AWG-9 L=23mm	833Z001A03 833Z001A02		!
-		C301	C-E	25V 220M-M	470Z221T43		1
+		C302	C-C-CHIP	25V F-R1M-Z	411Z104B44		
7		C303	C-E	25V 220M-M	460Z221B43		
1		C304	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C306	C-C-CHIP	25V F-R1M-Z	411Z104B44		
		C307	C-E	25V 100M-M	460Z101B43		
1		C308	C-C-CHIP	25V F-R1M-Z	411Z104B44	l	
		C309	C-C-CHIP	25V F-R1M-Z 125V 100M-M	411Z104B44 460Z101B43		
+		C310	C-E	25V 100M-M 150V 4R7M-M	4602479863		
+		C312	C-C-CHIP	150V CH-27P-J	410Z270B14		
7		C313	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C314	C-E	25V 47M-M	460Z470B43		
1		C315	C-E	25V 100M-M	460Z101B43		
'		C318	C-E	16V 470M-M	460Z471B33		
1		C319	C-C-CHIP	50V B-1000P-K	411Z102B14		
+		C320	C-C-CHIP	25V F-R1M-Z 25V F-R1M-Z	411Z104B44		
}		C321 C322	C-C-CHIP C-C-CHIP	25V F-R1M-Z 25V F-R1M-Z	411Z104B44 411Z104B44	 	
i 		C323	C-C-CHIP	25V F-R1M-Z	411Z104B44	 	
7-		C325	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C326	C-C-CHIP	25V F-R1M-Z	411Z104B44		
-		C327	C-C-CHIP	25V F-R1M-Z	4112104844		
		C328	C-C-CHIP	25V F-R1M-Z	411Z104B44	 	
1		C329	C-E	25V 100M-M	460Z101B43	ļl	
1		C330	C-E	25V 100M-M	460Z101B43		
1		C350	C-E	16V 470M-M	470Z471T33	<u> </u>	
1		C351	C-C-CHIP	25V F-R1M-Z	411Z104B44		
-		C354	C-E	100V 2R2M-M	470Z229T83	\Box	
1		C355 C356	C-C-CHIP	100V 1M-M 150V B-1000P-K	470Z109T83 411Z102B14		
 		C357	C-E	100V 1M-M	470Z109T83	 	
+		C357	C-E	25V 33M-M	470Z109183	 	
1		C359	C-C-CHIP	50V B-R033M-K	411Z333B14		
1		C360	C-E	16V 1000M-M	470Z102G33		
1		C361	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C362	C-E	25V 220M-M	470Z221T43	<u> </u>	
-		C363	C-C-CHIP	25V F-R1M-Z 50V B-R033M-K	411Z104B44 411Z333B14	 	
+		C364 C366	C-C-CHIP C-C	50V B-R033M-K 50V SL-390P-J	411Z333B14 410Z391A73	\vdash	
-		C367	C-C-CHIP	50V CH-2200P-J	410Z222C14	 	
+		C368	C-E	25V 47M-M	470Z470T43		
1		C369	C-C-CHIP	50V CH-1000P-J	410Z102B14		
1		C368	C-E	25V 47M-M	470Z470T43		_

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1		Č372	C-C-CHIP	50V CH-22P-J	4102220B14		
1		C373	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C374	C-E	50V 10M-M	470Z100T63		
1		C375	C-E	50V 10M-M	470Z100T63		
1		C377	C-E	25V 100M-M	470Z101T43		
1	<u> </u>	C378	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C379	C-C-CHIP	50V B-1000P-K	411Z102B14		
1		C380	C-E	25V 100M-M	470Z101T43		
1		C382	C-E	50V 10M-M	470Z100T63		
1		C384	C-E	25V 100M-M	470Z101T43		
1	-	C385	C-E	25V 100M-M	460Z101B43		
1		C390	C-E	25V 100M-M	460Z101B43	L	
1		C391	C-E	25V 100M-M	460Z101B43	<u> </u>	
1		C392	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C393	C-E	25V 100M-M	460Z101B43	1	
1		C394	C-E	25V 100M-M	460Z101B43		
1		C395	C-E	25V 100M-M	460Z101B43		
1		C396	C-E	25V 100M-M	460Z101B43		
1		C397	C-E	25V 100M-M	460Z101B43		
1		C398	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C401	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1	l	C402	C-E	25V 1000M-M	470Z102G47		
1		C403	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C404	C-E	25V 100M-M	470Z101T43		
1		C405	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C406	C-E	25V 1000M-M	470Z102G47		
1		C407	C-MF	100V R22M-J	420Z224E23		
1		C408	C-E	35V 100M-M	470Z101T53		
1		C410	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1	Γ	C413	C-C-CHIP	50V B-4700P-K	411Z472B14		
1		C501	C-PP	2000V 1800P-H	424Z182A67		
1		C502	C-PP	2000V 1800P-H	424Z182A67		
1		C504	C-PP	250V 2R2M-J/K	425Z225C17		
1		C505	c-c	2KV B-1500P-K	413Z152B46		
1		C507	C-C-CHIP	50V B-4700P-K	411Z472B14		
1		C508	C-PP	63/100V 10M-K/M	425Z106B37		
1		C509	C-C	500V B-680P-K	411Z681B33		
1		C510	C-PP	250V 1R6M-J	422Z165C47		
1		C511	C-PP	250V R68M-J	422Z684A47		
1		C512	C-PP	250V R27M-J	422Z274C47		
1		C513	C-PP	250V R12M-J	422Z124C47		
1		C514	C-PP	250V R1M-J	422Z104C47		
1		C515	C-PP	400V R075M-H	422Z753A37		
1		C516	C-PP	400V R082M-H	422Z823A37		
1		C518	C-MF	100V R47M-J	420Z474E23		
1		C519	C-E	100V 1M-M	470Z109T83		
1		C520	C-MF	50/100V R15M-J	420Z154A83		
1		C521	C-E-NP	25V 10M-M	472Z100E43		
1		C522	c-c	500V B-470P-K	411Z471B33		
1		C523	C-E	450V 1M-M	461Z109B63		
1		C524	C-PP	1000/1250V2200P-J	423Z222C57		1
1		C525	C-E	100V 330M-M	470Z331R87		
1		C526	c-c	500V SL-120P-J	410Z121B43		
1		C527	C-PP	1000/1250V8200P-J	423Z822B57		
1		C528	C-E	25V 1000M-M	460Z102B47		
1		C529	C-E	100V 1M-M	460Z109B83		
1		C531	C-E	50V R1M-M	460Z108H63		
1		C532	C-E-NP	50V 10M-M	462Z100B63		
1		C533	C-PP	250V R1M-J	422Z104C47		
1		C534	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C537	c-c	500V B-1000P-K	411Z102B33		
1		C539	C-E	50V 10M-M	470Z100T63		
1		C541	C-E	25V 47M-M	460Z470B43		
1		C542	C-É	160V 10M-M	470Z100G93		
1		C543	C-E	25V 100M-M	470Z101T43		
1		C544	C-PP	100V 2R2M-J/K	425Z225B07		
1		C551	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C552	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C553	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C554	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C555	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C556	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1	L	C557	C-PP	250V R082M-J	422Z823C47		
1		C559	C-E	25V 220M-M	470Z221T43		
1		C560	C-E	50V 22M-M	460Z220B63		
1	T	C563	C-E	100V 2R2M-M	470Z229T83		!
1	T	C564	C-E	100V 2R2M-M	470Z229T83		1
1	1	C565	C-MF	50V R47M-J	420Z474A13		
	1	1	1	<u> </u>			

	T	1	1	T	Γ	l	
Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1		C566	C-C	500V E-R01M-P/Z	411Z103A07		
1	ļ	C950	C-PP	630V 1M-K	425Z105C27		
1	├	C951 C952	C-E C-C-CHIP	25V 100M-M 25V F-R1M-Z	470Z101T43 411Z104B44		
 	├	C953	C-MF	50V R68M-J	420Z684A13		
1		C954	C-C-CHIP	50V CH-680P-J	410Z681B14		
1		C955	C-MF	50/100V 1000P-J	420Z102B83		
1		C956	C-E	450V 220M-M	477Z006A10		
1		C957	C-PP	630V R047M-K	425Z473C27		
1	<u> </u>	C958	c-c	2KV SL-47P-J	414Z470A28		
1	 	C959 C960	C-C C-E	2KV B-220P-K 35V 220M-M	413Z221B43 470Z221G53		
1	 ·	C961	C-E	50V 10M-M	470Z100T63		
1		C962	C-C-CHIP	50V CH-560P-J	410Z561B14		
1		C963	C-C-CHIP	50V CH-2200P-J	410Z222C14		
1		C964	C-MF	50/100V R047M-J	420Z473B83		
1		C965	C-E	50V 22M-M	470Z220T63		
1		C966 C967	C-MF	50/100V R22M-J 50/100V R01M-J	420Z224A83 420Z103B83		
<u> </u>		C968	C-MF	50/100V R01M-J	420Z103B83		
1	-	C969	C-C	AC250V 2200P-M	510Z012A16		1
1		C970	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C971	C-C	2KV B-220P-K	413Z221B43		
1		C972	C-E	100V 330M-M	470Z331R87		
1		C973	C-C	500V E-R01M-P/Z	411Z103A07		
1		C974 C975	C-C	100V 220M-M 2KV B-220P-K	470Z221R87		
1		C975	C-C C-E	2KV B-220P-K 35V 1800M-M	413Z221B43 470Z182S57		
1		C977	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C978	C-E	35V 680M-M	470Z681S57		
1		C979	c-c	2KV B-220P-K	413Z221B43		
1		C980	C-E	25V 2700M-M	4702272847		
1		C981	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C982 C983	C-E C-C	25V 1500M-M 2KV B-220P-K	470Z152S47		
1		C984	C-E	25V 1500M-M	413Z221B43 470Z152S47	-	
1	-	C985	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C986	C-E	35V 680M-M	470Z681S57		
1		C987	c-c	2KV B-100P-K	413Z101B43		
1		C988	c-c	500V B-330P-K	411Z331B33		
1	-	C989 C991	C-MF	50/100V 1000P-J 25V 220M-M	420Z102B83		***************************************
1		C992	C-C-CHIP	25V F-R1M-Z	470Z221T43 411Z104B44		
1	-	C993	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C994	C-E	25V 100M-M	470Z101T43		
1		C997	C-E	35V 100M-M	470Z101T53		
1		D306	ZD	MTZ-J4.78/HZ5B1	742Z414A21		
1	-	D307	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1	 	D308	ZD ZD	MTZ-J4.7B/HZ5B1 MTZ-J4.7B/HZ5B1	742Z414A21 742Z414A21		
1	\vdash	D401	D	EM01Z/D1N60/1N4003	742Z414A21 742Z019A31		
+		D501	D	5VUZ47	742Z063A15		
1		D502	D	RC3B2	742Z032A17		
1		D503	ZD	HZT33-10	742Z408A11	1	ı
1	\vdash	D504	D	EM01Z/D1N60/1N4003	742Z019A31		
1		D505 D506	D ZD	EM01Z/D1N60/1N4003 P6KE82/Z2082U	742Z019A31 742Z419A21		
1		D511	D	5VUZ47	742Z419A21 742Z063A15	 	
1	1	D512	D	RG2/S2L40	742Z021A18		
1		D513	D	1N4148/1SS133/1SS120	742Z001A21		
1		D514	D	1N4148/1SS133/1SS120	742Z001A21		
1		D515	D	HER108/EG01C/UF4007	742Z024A21		
1	 	D516	D	S3L40/HER305	742Z036A47		
1	\vdash	D517 D518	D D	HER108/EG01C/UF4007 SF34/S3L20U/ERC91-02	742Z024A21 742Z035A38		
' -	├─┤	D519	D	SF34/S3L20U/ERC91-02	742Z035A38		
1	\vdash	D520	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31		
1		D521	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31		
1		D522	D	1N4148/1SS133/1SS120	742Z001A21		
1		D523	D	EM01Z/D1N60/1N4003	742Z019A31		
1		D524	D	EM01Z/D1N60/1N4003	742Z019A31		
1		D525 D526	ZO D	MTZ-J27A/HZ24-3 1N4148/1SS133/1SS120	742Z415A21 742Z001A21	\longrightarrow	
1		D527	D	EG01/D1NL40	742Z020A11		
1		D528	ZD	MTZ-J10B	742Z411A11		
1		D529	ZD	MTZ-J13C/HZ12B3	742Z417A21		
1		D530	D	5VUZ47	742Z063A15		
_ 1		D531	D	1N4148/1SS133/1SS120	742Z001A21		

	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1	 	D532	D	D5S4M	.		
1	ļ	D533	ZD	MTZ-J27A/HZ24-3	742Z415A21	ļ	
1	ļ	D534	ZD	MTZ-J27A/HZ24-3	742Z415A21	<u> </u>	
1	ļ	D535	ZD	MTZ-J27A/HZ24-3	742Z415A21		
1		D950	D	RBV-606/D5SBA60	742Z062A16		1
1		D951	D	YG912S6/SF8L60	742Z042A15		
1		D952	ZD	MTZ-J15C/HZ15-2	742Z422A11		
1		D953	D	HER108/EG01C/UF4007	742Z024A21		
1		D954	D	EG01/D1NL40	742Z020A11		
1		D956	D	EG01/D1NL40	742Z020A11	 	
1		D957	D	1N4148/1SS133/1SS120	742Z001A21	 	
_					742Z026A21	 	
1		D958	D	RB441Q/1SS165-03/SR104		 	
1		D959	ZD	MTZ-J4.7B/HZ5B1	742Z414A21	ļ	
1		D960	D-CHIP	HSM123/DAN217/1PS226	742Z017A24	L	
1		D961	D	1N4148/1SS133/1SS120	742Z001A21		
1		D962	D	1N4148/1SS133/1SS120	742Z001A21		
1		D963	Ď	1N4148/1SS133/1SS120	742Z001A21		Ī
1	<u> </u>	D964	D	EM01Z/D1N60/1N4003	742Z019A31		
1	-	D965	D	S3L40	742Z036A15		
	ļ				<u> </u>		├──
1		D966	D	S3L40	742Z036A15	ļ	
1		D967	D	FML-G14S	742Z049A15	ļ	
1	L^{-}	D968	D	FML-G12S/D4L20U/SF6L20U	742Z011A15		<u> </u>
1		D969	D	FML-G12S/D4L20U/SF6L20U	742Z011A15		
1		D970	D	FML-G14S	742Z049A15	Ι	T
<u> </u>	 	D971	D	HER108/EG01C/UF4007	742Z024A21	<u> </u>	
1		D972	D	1N4148/1SS133/1SS120	742Z001A21	 	
_				<u></u>	742Z414A21	 	
1	<u> </u>	D974	ZD	MTZ-J4.7B/HZ5B1		ļ	
1	L	D975	D	1N4148/1SS133/1SS120	742Z001A21	ļ	ļ
1		D981	D	HER103/UF4003/AL01Z/D1NL20U	742Z009A31		
1		IC301	IC	TMP86PP11AN	741Z625B10		
1		IC302	IC	M51951BSL/KIA7045P	741Z017A33		
1	 	IC303	ic	24C08	741Z018A20		
1		IC304	IC	MIU-231	741Z706A10		
		10304	SOCKET-IC	8305-42AT00/CLC3042-0101	448Z012A10		
1					 	ļ	
1		IC350	IC	UPC1888DCT	741Z443A10		
1		IC351	IC	7812	741Z501A85		
1		IC401	IC	LA7840L	741Z414A10	L	
1		IC501	IC	SLA5070	741Z449A17		
1	 	IC502	IC	MSPAD383	741Z707A10		
1		IC503	IC	7805	741Z532A25		
1		IC951	IC	MC33260P	741Z450A10		
		IC952	ic	3842	741Z417A10		
1_					741Z536A15		
1		IC953	IC	7712/2412			
1		K501	RELAY	F2AK12T/LKS321/DG12D1/SDT12LMR	781Z010A10		
1	l .	K502	RELAY	F2AK12T/LKS321/DG12D1/SDT12LMR	781Z010A10		
1		K950	RELAY	OSA-SS-212DM5/DG12D2/ALA2PF12	781Z007A10		1
1		L301	COIL-CHOKE	22MH	751Z308A26		
1	 	L304	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1	 	L401	COIL-CHOKE	22MH	751Z308A26		
	-				<u> </u>		
1		L402	COIL-CHOKE	22MH	751Z308A26		
1		L501	COIL-CHOKE	2100MH	751Z917A10	L	ļ
1	L	L502	COIL-CHOKE	470MH	751Z308A46	L	L
1	1	L503	COIL-H-LIN		754Z008A10		l
1		L504	COIL-CHOKE	22MH	751Z618A33		
1	t	L505	FERRITE-BEADS	FBA03HA450	750Z903A11		· · · · · · · · · · · · · · · · · · ·
	 		FERRITE-BEADS	FBA03HA450	750Z903A11	—	
1		H 506		1	1	 	
		L506	COLLECTO		7547006490		
1		L507	COIL-H-LIN	opposition of the state of the	754Z006A80	ļ	
1		L507 L508	COIL-CHOKE	3R3MH	751Z309A13		
1		L507		470MH	751Z309A13 751Z308A46		
1 1		L507 L508	COIL-CHOKE		751Z309A13		
1 1		L507 L508 L509	COIL-CHOKE	470MH	751Z309A13 751Z308A46		
1 1 1 1		L507 L508 L509 L510	COIL-CHOKE COIL-CHOKE COIL-CHOKE	470MH	751Z309A13 751Z308A46 751Z308A46		
1 1 1 1 1		L507 L508 L509 L510 L511 L512	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE	470MH	751Z309A13 751Z308A46 751Z308A46 990Z001A11		
1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE	470MH 470MH	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11		
1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE	470MH 470MH 1000MH	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56		
1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56 750Z906A13		
1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS	470MH 470MH 1000MH ZBF503/EXCEL ZBF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13		
1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56 750Z906A13		
1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS	470MH 470MH 1000MH ZBF503/EXCEL ZBF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13		
1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS	470MH 470MH 1000MH 28F503/EXCEL ZBF503/EXCEL ZBF503/EXCEL	7512309A13 7512308A46 7512308A46 9902001A11 9902001A11 7512308A56 7502906A13 7502906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL ZBF503/EXCEL ZBF503/EXCEL 10MH	7512309A13 7512308A46 7512308A46 9902001A11 9902001A11 7512308A56 7502906A13 7502906A13 7502906A13 7502301A11 7502906A13		
1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 2BF503/EXCEL 10MH ZBF503/EXCEL	7512309A13 7512308A46 7512308A46 9902001A11 9902001A11 9902001A11 7512308A56 7502906A13 7502906A13 7502906A13 7502301A11 7502906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13 990Z001A11 751Z906A13		
1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955 L955 L955 L956 L956	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL 550MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z301A11 750Z301A11 751Z308A56 750Z301A11 750Z301A11 750Z301A11 750Z906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13 990Z001A11 751Z906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955 L955 L955 L956 L956	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL 550MH 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z301A11 750Z301A11 751Z308A56 750Z301A11 750Z301A11 750Z301A11 750Z906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955 L955 L955 L955 L955 L955	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE FERRITE-BEADS FERRITE-BEADS FERRITE-BEADS	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL 550MH ZBF503/EXCEL 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13 751Z906A13 751Z906A13 750Z906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L956 L956 L957 L959 L959 L959 L959 L959 L959 L959	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS COIL-CHOKE FERRITE-BEADS COIL-CHOKE SO-COPPER-WIRE	470MH 470MH 1000MH 2BF503/EXCEL ZBF503/EXCEL 10MH ZBF503/EXCEL 550MH 2BF503/EXCEL ZBF503/EXCEL	7512309A13 7512308A46 7512308A46 9902001A11 9902001A11 9902001A11 7512308A56 7502906A13 7502906A13 7502906A13 9902001A11 7512905A20 7502906A13 7502906A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L507 L508 L509 L510 L511 L511 L512 L513 L514 L950 L951 L952 L953 L954 L955 L955 L956 L956 L956 L957 L958	COIL-CHOKE COIL-CHOKE COIL-CHOKE SO-COPPER-WIRE SO-COPPER-WIRE SO-COPPER-WIRE COIL-CHOKE FERRITE-BEADS FERRITE-BEADS COIL-CHOKE	470MH 470MH 1000MH 2BF503/EXCEL 2BF503/EXCEL 10MH 2BF503/EXCEL 550MH ZBF503/EXCEL 2BF503/EXCEL	751Z309A13 751Z308A46 751Z308A46 990Z001A11 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z906A13 750Z906A13 990Z001A11 751Z308A56 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13 750Z906A13		

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARI
		Ğ352	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34		
1		Q353	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34		
1		Q501	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34	ļ	
1	L	Q503	TR	28C5570	740Z167A15 740Z467A13	 	
1	ļ	Q504 Q505	TR-CHIP	2SK2962 KRC105S/DTC123JKA/RN1405	740Z467A13	 	
1		Q506	TR-CHIP	KRA103/DTA124/RN2403/PDTA124	740Z661A34		
1	 	Q507	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34	1	
1		Q508	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34	 	
1		Q509	TR-CHIP	KRC105S/DTC123JKA/RN1405	740Z665A14	 -	
1		Q516	TR	2SC5248	740Z165A15		
1		Q517	TR	2SA1964	740Z009A15	 	
1		Q518	TR	BF422/HBF422	740Z163A23		
1		Q519	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34	 	
1		Q520	TR	2SC4620	740Z173A13	 	
1		Q521	TR	2SK2364/2SK2543/2SK2640-01MR	740Z464A15		
1		Q522	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34		
1		Q523	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34		
1		Q524	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34		
1		Q525	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709	740Z001A34		
1		Q526	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34		
1		Q527	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
1		Q528	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
1		Q529	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
1		Q530	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
-		Q531	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
1		Q532	TR-CHIP	RN1401/DTC143EKA/KRC101S	740Z667A24		
1		Q533	TR	2SA821S	740Z003A13		
1		Q950	TR	2SK2837/STW20NC50	740Z471A15		
1		Q951	TR	2SK2968/STW9NB90	740Z470A25		
1		Q952	TR-CHIP	KRC105S/DTC123JKA/RN1405	740Z665A14		
-		Q953	TR CUID	2SK2508/2SK2341	740Z451A25		
-		Q954	TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34		
1		Q955 R301	TR-CHIP	BT1015/2SA1037/KTA1504/2PB709 1/10W 4R7K-J	740Z001A34 613Z472C24		
+		R302	R-M-CHIP	1/10W 4R7K-J	613Z472C24	 	
;		R303	R-M-CHIP	1/10W 33-J	613Z330C24		
; 		R304	R-M-CHIP	1/10W 33-J	613Z330C24	-	
+		R305	R-M-CHIP	1/10W 33-J	613Z330C24	 	
1		R306	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R307	R-C	1/4W 100-J	613Z101C11		
1		R308	R-M-CHIP	1/10W 100-J	613Z101C24		
1		R309	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R310	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R311	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R312	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R313	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R314	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R316	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R317	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R318	R-MB	1/4W 20K-F	615Z203B11		
1		R319	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R320	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R321	R-M-CHIP	1/10W 4R7K-J	613Z472C24	I	
1		R322	R-M-CHIP	1/10W 4R7K-J	613Z472C24	$oxed{\Box}$	
1		R324	R-M-CHIP	1/10W 100-J	613Z101C24	<u> </u>	
1		R325	R-M-CHIP	1/10W 100-J	613Z101C24		
! 		R326	R-M-CHIP	1/10W 1K-J	613Z102C24	 	
1		R329	R-M-CHIP	1/10W 4R7K-J	613Z472C24	 	
! 		R330	R-M-CHIP	1/10W 4R7K-J	613Z472C24	\vdash	
1		R331	R-M-CHIP	1/10W 4R7K-J	613Z472C24	 	
1		R332	R-M-CHIP	1/10W 33-J	613Z330C24		
<u>! </u>		R333	R-M-CHIP	1/10W 33-J	613Z330C24		
!		R335	R-M-CHIP	1/10W 1K-J	613Z102C24		
<u>! </u>		R336	R-M-CHIP	1/10W 1K-J	613Z102C24		
! 		R339	R-M-CHIP	1/10W 33-J	613Z330C24	 	
! 		R340	R-M-CHIP	1/10W 33-J	613Z330C24	 	
! 		R350	R-M-CHIP	1/10W 1K-J	613Z102C24	 	
! 		R351	R-M-CHIP	1/10W 1K-J	613Z102C24		
! 		R352	R-M-CHIP	1/10W 1K-J	613Z102C24	 	
<u>: </u>		R353	R-M-CHIP	1/10W 100-J	613Z101C24		
<u>: </u>		R354	R-M-CHIP	1/10W 1R5K-J	613Z152C24	 	
1		R355	R-M-CHIP	1/10W 47K-F	613Z473C54	 	
		R356	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
!		R357	R-M-CHIP	1/10W 20K-J	613Z203C24		
1			C 44 C/ //	lavania, andre :	0407	····	
		R358 R359	R-M-CHIP R-M-CHIP	1/10W 4R7K-J 1/10W 10K-J	613Z472C24 613Z103C24		

	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1		Ř361	R-M-CHIP	1/10W 100-J	613Z101C24	ļ	ļ
1		R362	R-M-CHIP	1/10W 100-J	613Z101C24	<u> </u>	
1		R363	R-M-CHIP	1/10W 20K-F	613Z203C54	<u> </u>	
1		R364	R-M-CHIP	1/10W 10K-J	613Z103C24	L	
1		R365	R-M-CHIP	1/10W 10K-J	613Z103C24	<u> </u>	
1		R366	R-C	1/4W 1K-J	613Z102C11	ļ	
1		R367	R-M-CHIP	1/10W 20K-J	613Z203C24		
1		R368	R-M-CHIP	1/10W 3R3K-J	613Z332C24		<u> </u>
1		R371	R-M-CHIP	1/10W 2R2K-J	613Z222C24 613Z152C54	 	ļ
1		R374	R-M-CHIP	1/10W 1R5K-F	 		
1		R375	R-MB	1/4W 33K-F	615Z333B11	ļ	
1		R376	R-M-CHIP	1/10W 470K-F	613Z474C54		
1		R377	R-MB	1/4W 560K-F	615Z564B11		
1	ļ	R383	R-M-CHIP	1/10W 10K-F	613Z103C54		
1	L	R385	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R389	R-M-CHIP	1/10W 12K-F	613Z123C54	ļ	<u>'</u>
1		R390	R-C	1/4W 33K-J	613Z333C11		
1		R391	SO-COPPER-WIRE		990Z001A11		ļ
1		R392	R-M-CHIP	1/10W 1K-J	613Z102C24	-	<u> </u>
1	<u> </u>	R393	R-M-CHIP	1/10W 100-J	613Z101C24	-	1
1		R394	R-M-CHIP	1/10W 100-J	613Z101C24	ļ	
!-		R397	R-M-CHIP	1/10W 13K-F	613Z133C54 612Z109C27	 	
1	<u> </u>	R401	R-MB	1W 1-J		 	<u> </u>
1	<u> </u>	R402	R-C	1/2W 330-J 1/10W 18K-F	613Z331D81		
1	<u> </u>	R403	R-M-CHIP		613Z183C54 613Z513C54	 	
1	ļ	R404	R-M-CHIP	1/10W 51K-F			ļ
1	ļ	R405	R-M-CHIP	1/10W 10K-F	613Z103C54		
1	<u> </u>	R406	R-FUSE	1/4W 1R5-J	614Z159A61 613Z472C54	-	
1	ļ	R407	R-M-CHIP	1/10W 4R7K-F	613Z472C54 613Z102C24	-	
1		R409	R-M-CHIP	1/10W 1K-J	 		ļ
1		R410	R-MB	1/4W 10K-F	615Z103B11	 	ļ
1		R411	R-M-CHIP	1/10W 12K-F	613Z123C54		
1		R412	R-M-CHIP	1/10W 1K-J	613Z102C24	ļ	ļ
1		R501	R-C	1/4W 47K-J	613Z473C11	<u> </u>	<u> </u>
1	ļ	R505	R-FUSE	1/4W 10-J	614Z100A61	ļ	ļ
1		R506	R-MB	1/2W 22-J	612Z220A17	↓	
1	ļ	R507	R-MB	2W 220-J	612Z221C37		ļ
1		R508	R-C	1/2W 15-J	613Z150D81	ļ	
1		R509	R-CE	5W R82-K	616Z828A56	 	ļ
1		R510	R-MB	2W R12-J	612Z128D37	 	ļ
1		R511	R-C	1/2W 15-J	613Z150D81 616Z750C16	_	ļ
1		R512	R-CE	5W 75-J		-	
1		R513	R-FUSE	1/4W 10-J	614Z100A61 612Z181C47	ļ	 -
1		R514	R-MB	3W 180-J 1/4W 1K-J	613Z102C11	<u> </u>	ļ
1		R515	R-C	1/4W 1K-J 1/10W 4R7K-J	613Z472C24	 	
1	<u> </u>	R519	R-M-CHIP		613Z151C24	 	
1		R520	R-M-CHIP		613Z472C24	ļ	<u> </u>
1		R521	R-M-CHIP	1/10W 4R7K-J 1/10W 150-J	613Z151C24		
1		R523	R-M-CHIP				
1	-	R524	R-M-CHIP	1/10W 4R7K-J	613Z472C24	 	
1		R526	R-M-CHIP	1/10W 150-J	613Z151C24 613Z472C24	 	
1	ļ	R527	R-M-CHIP	1/10W 4R7K-J	613Z472C24	 	ļ
1	L	R529 R530	R-M-CHIP	1/10W 150-J 1/10W 4R7K-J	613Z472C24		ļ
			R-M-CHIP		1	ļ	
1			B.C	1/4\A/ 150K-1	6137164014		ı
1		R531	R-C	1/4W 150K-J	613Z154C11	-	
1 1		R531 R532	R-M-CHIP	1/10W 150-J	613Z151C24		
1 1 1		R531 R532 R533	R-M-CHIP R-M-CHIP	1/10W 150-J 1/10W 4R7K-J	613Z151C24 613Z472C24		
1 1 1 1		R531 R532 R533 R534	R-M-CHIP R-M-CHIP R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J	613Z151C24 613Z472C24 613Z154C11		
1 1 1 1 1		R531 R532 R533 R534 R535	R-M-CHIP R-M-CHIP R-C R-M-CHIP	1/10W 150-J 1/10W 4R7K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24		
1 1 1 1 1 1		R531 R532 R533 R534 R535 R536	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11		
1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11		
1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11		
1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C R-C R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11		
1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539 R540	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C R-C R-C R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11 613Z100B11		
1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539 R540	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C R-C R-C R-C R-C R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11 613Z100B11 613Z470C11		
1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R542	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C R-C R-C R-C R-C R-C R-C R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/4W 1R8K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11 613Z100B11 613Z470C11 613Z393C11 613Z182C11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R542 R543	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 156-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/4W 1R8K-J 1/10W 1K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150C11 613Z100B11 613Z100B11 613Z470C11 613Z393C11 613Z182C11 613Z182C11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R537 R538 R539 R540 R541 R542 R543 R544	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/4W 188K-J 1/10W 1K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150C11 613Z100B11 613Z470C11 613Z470C11 613Z470C11 613Z102C24 613Z102C24 613Z102C21		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R537 R538 R540 R541 R542 R543 R544	R-M-CHIP R-M-CHIP R-C R-M-CHIP R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/10W 1R8K-J 1/10W 1K-J 1/4W 1K-J 1/4W 1K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150C11 613Z100B11 613Z100B11 613Z393C11 613Z393C11 613Z182C11 613Z182C11 613Z102C24 613Z102C21 614Z100A61		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R542 R542 R543 R544 R544	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/4W 1R8K-J 1/10W 1K-J 1/4W 10-J 1/4W 1K-J 1/4W 10-J 1/4W 10-J	613Z151C24 613Z472C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150B11 613Z100B11 613Z100B11 613Z470C11 613Z393C11 613Z182C11 613Z102C24 613Z102C21 613Z102C11 614Z100A61 613Z474C11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R541 R542 R543 R544 R544 R545	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 3R-J 1/4W 3R-J 1/4W 1K-J 1/4W 1K-J 1/4W 10-J 1/4W 1K-J 1/4W 1X-J 1/4W 1X-J 1/4W 1X-J 1/4W 1X-J 1/4W 1X-J 1/4W 1X-J 1/4W 3R3M-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11 613Z100B11 613Z393C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z355E11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R533 R534 R534 R535 R536 R537 R538 R539 R540 R541 R542 R543 R543 R544 R544 R544 R546 R546 R547	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 15K-J 1/4W 15K-J 1/4W 10-J 1/4W 10-J 1/4W 39K-J 1/4W 18K-J 1/10W 1K-J 1/4W 10-J 1/4W 11-J 1/4W 11-J 1/4W 11-J 1/4W 11-J 1/4W 11-J 1/4W 11-J 1/4W 3R3M-J 1/10W 22K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z153C11 613Z100B11 613Z100B11 613Z470C11 613Z182C11 613Z102C24 613Z102C24 613Z102C11 613Z35T11 613Z335F11 613Z335F11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R542 R543 R544 R545 R546 R547 R546 R547	R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/10W 150-J 1/4W 10-J 1/4W 10-J 1/4W 39K-J 1/4W 39K-J 1/4W 18-B-J 1/10W 1K-J 1/4W 1K-J 1/4W 1K-J 1/4W 470K-J 1/4W 3R3M-J 1/10W 22K-J 1/4W 1R2K-J 1/10W 1R2K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150C11 613Z100B11 613Z100B11 613Z470C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11 613Z102C11		
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R532 R533 R534 R535 R536 R537 R536 R537 R541 R542 R542 R543 R544 R545 R546 R547 R546 R547 R548 R549 R549 R550	R-M-CHIP R-M-CHIP R-M-CHIP R-C R-M-CHIP R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/4W 15-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/10W 1K-J 1/4W 10-J 1/4W 10-J 1/4W 1K-J 1/4W 1K-J 1/4W 1K-J 1/4W 3R3M-J 1/10W 22K-J 1/10W 47K-J	613Z151C24 613Z472C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z100B11 613Z100B11 613Z100B11 613Z100B11 613Z102C11 613Z182C11 613Z102C24 613Z102C11 613Z335F11 613Z335F11 613Z323C24 613Z122C11 613Z122C14 613Z122C11		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R531 R532 R532 R533 R534 R534 R535 R536 R537 R538 R539 R541 R541 R542 R543 R544 R545 R546 R546 R547 R548 R549 R550	R-M-CHIP R-M-CHIP R-M-CHIP R-C R-M-CHIP SO-COPPER-WIRE R-C	1/10W 150-J 1/10W 4R7K-J 1/4W 150K-J 1/10W 150-J 1/10W 150-J 1/4W 10-J 1/4W 10-J 1/4W 47-J 1/4W 39K-J 1/4W 18-BK-J 1/10W 1K-J 1/4W 1K-J 1/4W 1N-J 1/4W 3R3M-J 1/10W 3R3M-J 1/10W 3R3M-J 1/10W 3R3M-J 1/10W 47K-J 1/10W 47K-J 1/10W 47K-J	613Z151C24 613Z472C24 613Z154C11 613Z151C24 990Z001A11 613Z150C11 613Z100B11 613Z470C11 613Z393C11 613Z102C24 613Z102C11 613Z335C11 613Z335C11 613Z335F11 613Z474C11 613Z335F11 613Z474C11 613Z474C11 613Z332C24		

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Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1		R555	R-C	1/4W 82K-J	613Z823C11		
1		R556 R557	R-CE R-M-CHIP	5W 68-J 1/10W 8R2K-F	616Z680C17 613Z822C54	ļ	!
1		R558	R-M-CHIP	1/10W 0R2K-F	613Z273C54		
1		R559	R-FUSE	1/4W R22-K	614Z228B11		
1		R560	R-C	1/4W 100-J	613Z101C11		
1		R561	R-FUSE	1/4W 2R2-J	614Z229A61		
1		R562	R-FUSE	1/4W 10-J	614Z100A61		
1		R563	R-C	1/4W 33-J	613Z330C11		
1		R564	R-C	1/4W 4R7K-J	613Z472C11		
1		R565	R-C	1/4W 1K-J	613Z102C11		
1		R566 R567	R-C R-M-CHIP	1/4W 820-J 1/10W 22K-J	613Z821C11 613Z223C24		
<u> </u>		R568	R-C	1/4W 5R6K-J	613Z562C11		
1		R569	R-M-CHIP	1/10W 47K-J	613Z473C24		
1		R571	R-M-CHIP	1/10W 240K-F	613Z244C54		1
1		R572	R-M-CHIP	1/10W 120K-F	613Z124C54		1
1		R573	R-C	1/4W 68K-J	613Z683C11		
1		R574	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R575	R-M-CHIP	1/10W 100K-J	613Z104C24		
1		R576 R577	R-M-CHIP R-M-CHIP	1/10W 4R7K-J 1/10W 2R2K-J	613Z472C24 613Z222C24		
1		R577	R-M-CHIP	1/10W 2R2K-J 1/10W 4R7K-J	613Z2Z2C24 613Z472C24		
1		R579	R	1/2W 56K-J	619Z563A71		
1		R580	R-M-CHIP	1/10W 220-J	613Z221C24		
1		R581	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R582	R-C	1/4W 150K-J	613Z154C11		
1		R583	R-C	1/4W 150K-J	613Z154C11		
-		R584	R-C	1/4W 150K-J	613Z154C11		
1		R585	R-C	1/4W 150K-J	613Z154C11		
1		R586 R587	R-FUSE	1/4W 15K-J 1W 82-J	613Z153C11 614Z820A38		
-		R588	R-M-CHIP	1/10W 2K-J	613Z202C24		
+		R589	R-M-CHIP	1/10W 2K-J	613Z202C24		
1		R951	R-MB	3W R33-J	612Z338C47		
1		R952	SO-COPPER-WIRE		990Z001A11		~
1		R953	R-FUSE	1/4W 2R2-J	614Z229A61		
1		R954	R	1/2W 1M-J	619Z105A71		
1		R955	R	1/2W 1M-J	619Z105A71		
		R956 R957	SO-COPPER-WIRE R-CE	5W 39K-J	990Z001A11 616Z393C17		
<u> </u>		R958	R-MB	2W 120K-J	612Z124G37		
1		R959	R-MB	2W 100K-J	612Z104C37		
1		R960	R-MB	2W 12-J	612Z120C37		
1		R961	R-FUSE	1/4W R22-K	614Z228B11		
1		R963	R-FUSE	1/4W 10-J	614Z100A61		
1			R-FUSE	1/2W 100-J	614Z101A71		
1			R-FUSE	1/4W 10K-J	614Z103A61		
1			R-FUSE R-MB	1/4W 1K-J 2W R33-J	614Z102A61 612Z338C37		
\dashv			R-MB	2W 1K-J	612Z336C37		
+		R969	R-M-CHIP	1/10W 13K-J	813Z133C24		
1		R970	R-M-CHIP	1/10W 1R3K-J	613Z132C24		
1		R971	R-M-CHIP	1/10W 33K-J	613Z333C24		
1		R972	R-M-CHIP	1/10W 1M-J	613Z105C24		
1		R973	R-C	1/4W 15K-J	613Z153C11	I	
- 1		R974	R-C	1/4W 43-J	613Z430C11		
1		R975 R976	R-C FUSE	1/4W 47-J 471005/20T5000	613Z470C11 283Z222A21		
+			R-FUSE	1/4W 15-J	614Z150A61		·
-			FUSE	471004/20T4000	283Z222A11		
1			R-FUSE	1/4W 15-J	614Z150A61		
1			R-FUSE	1/4W 15-J	614Z150A61		
1		R981	FUSE	251007/20N7000	283Z221A31		
1		R982	R-FUSE	1/4W 15-J	614Z150A61		
1		R983	FUSE	471005/20T5000	283Z222A21		
1		R984	R-MB	2W 660-J	612Z6B1C37		
1			R-MB	2W R22-J	612Z228C37		
1			R-C	1/4W 1K-J	613Z102C11		
1			R-C R-FUSE	1/4W 1K-J 1/2W 100-J	613Z102C11 614Z101A71		
			R-FUSE R-C	1/2W 10U-J 1/4W 10K-J	613Z103C11		
1			R-M-CHIP	1/10W 8R2K-J	613Z822C24		
-			R-C	1/4W 150K-J	613Z154C11		
1			R-C	1/4W 4R7K-J	613Z472C11		
			R	1/2W 4R7M-J	619Z475A71		
1							
1			R	1/2W 4R7M-J	619Z475A71		

DWG. TITLE : ASSY-PWB-MAIN

Q'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1		Ř9A3	R-FUSE	1/4W 10K-J	614Z103A61	Ι	
1		R9A4	R-MB	2W R33-J	612Z338C37		
1		R9A5	R-M-CHIP	1/10W 39K-J	613Z393C24		
1		R9A6	R-MB	2W 56K-J	612Z563C37		
1		R9A7	R-MB	2W 56K-J	612Z563C37		
1		R9A8	R-C	1/4W 100-J	613Z101C11		
1		S501	sw	SK-23D07-V4	129Z034A10		
1		SG501	NEON-LAMP	DSP-152M/YP-152N	789Z014A31		
1		T501	FBT		759Z011A10		1
1		T502	HDT		757Z001A20		
1		T503	swt		756Z007A10		
1		T950	SWT		756Z025A10		
1		T951	SWT		756Z024A10		!
1		TH950	THERMISTOR	10	744Z001A28	1	1
1		VR501	VR	B-100K	620Z104A83		
1		VR502	VR	B-100K	620Z104A50		
1		VR503	VR	B-10K	620Z103A83	<u> </u>	1
1	-	VR951	VR	B-500	620Z501A60		· · · · · ·
1		X301	X'TAL	12MHZ	780Z011A16	1	
1	 	AD	CONNECTOR	A3963WV2-5P-2,4NC	452Z052B10	1	1
1	 	В	CONNECTOR	A2501WV2-10P	452Z029J10		1
1	 	СТ	CONNECTOR	A2501WV2-2P	452Z029A10		1
1	 	DG	CONNECTOR	A3963WV2-3P-2NC	452Z052A10		!
1		H-DY	CONNECTOR	A3963WV2-6P	452Z030E10	1	1
1		MF	CONNECTOR	A2501WV2-2P	452Z029A10	1	1
1		RS	CONNECTOR	A2501WV2-5P	452Z029D10	1	1
1		TP	CONNECTOR	A2501WR2-4P	452Z048C10	as lituras	. I
1		V-DY	CONNECTOR	A3963WV2-3P-2NC	452Z052A10	1	1
2		тн	GT-PIN	DIA2.36	452Z902A10		
32			EYELET		679D022A20		
1			RADIATOR	UOT-10CS25-MP	790Z001A10		
3		<u> </u>	RADIATOR	OSH-2425/PR1724/790Z006-10	790Z006A10	1	
1			RADIATOR	OSH-2054-L80-MP/2054-680-MP	790Z025A20	1	
2	l	l	RADIATOR	23*26.5*1.2	790Z028A10	1	
1			RADIATOR	23.4*75*17	790Z030A10	1	
1		 	RADIATOR	43.5*75*17	790Z034A10	ļ	
1	 		PWB-MAIN		210R098-01	1	!

Q'TY	REV.	REF.NO.	PART TERONT-CABINET	DESCRIPTION	PART NO. 700R090-21	PRICE	REMAR
-	├	28	BACK-COVER		700R086-23	-	
-	 	31	STAND-SUPPORT	<u> </u>	770R034-21		- !
· i	├	34	STAND-BASE		770R029-22		!
1	├	36	CAP-SCREW-L		7001028-01		
1	 	37	CAP-SCREW-R		7001028-02		
2	 	39	HOLDER-SP		7001026-02		
1		40	STOP-RING		7701022-02		
1		41	CHIP-LED		7031007-01		
1		42	BUTTON-PUSH		704S003-02		
1		44	RING		700T024-01 590R154-03		
1	<u> </u>	47 48	BASE-PLATE		590R154-03		
-		49	SIDE-PLATE-L		590R169-01		
-		50	SIDE-PLATE-R		590R169-02		
1	 	51	BOTTOM-PLATE		590R167-03		
1	 	52	SHIELD-COVER-A		590R170-01		
1	 	53	SHIELD-COVER-B		590R171-01		
-1-	1	54	SHIELD-COVER-C		590R172-01		
1		55	SHIELD-MAIN		590R173-01		
1		56	HOLDER-CONT		5901092-01		
1		57	COVER-PLATE		590V114-01		
1		61	COIL-DEGAUSSING		4092061-01		!
1		62 63	COIL-CANCEL		409Z062-01 409Z063-01		_ !_
+	-	64	COIL-CANCEL	ļ	409Z063-01 409Z063-02	 	
+	 	66	CRT	M51LRY32X61	251Z064A04		1
<u> </u>		68	ACINLET		4542012-01		!
1		70	LEAD-CONNECTOR		2461096-01		
1	 	71	LEAD-CONNECTOR		2461096-02		
1	 	72	LEAD-CONNECTOR		246T096-04		- i
1		73	LEAD-CONNECTOR		246T096-05		<u> </u>
1	 	74	LEAD-CONNECTOR		2461090-11		- i
-1	-	75	LEAD-CONNECTOR		2461090-12		
1	<u> </u>	76	LEAD-CONNECTOR	<u> </u>	2462018-01		1
1	†	77	EARTH-WIRE		246V026-01		
2		80	SCREW	STV-SEMS-A3*6MC-S	6322221806		
4		81	SCREW	STV-SEMS-W3*8MC-S	632Z421B08		
15	Ī	82	SCREW	STV3*6MC-S	632Z121B06		
11		83	SCREW	BTV3*8MC-S	6312121808		
7		84	SCREW	BTV-SEMS-W3*10MC-S	631Z421B10		
3		85	SCREW	BTV-SEMS-W3*14MC-S	631Z421B14		
10		86	SCREW	BTV4*10MC-S	631Z121C10		
6		87 88	SCREW	BTV4*16MC-S BTF3*8AB-S	631Z121C16		
1		89	SCREW	MHA-SEMS-B4*8GR-S	631Z113808 630Z344C08		
4		90	SCREW	PTHA-SEMS5'20MC-S	663Z003D20		
	<u> </u>						
4		91 92	SCREW	82007-0300/EHDE-JACKPOST4-40 MB-SEMS-W3*8MC-S	666Z003A01		
11		94	SCREW CABLE-TIES	GT-100M/TSL-100-M/YJ-100	630Z431B08 540Z089A01		
7		95	CLAMPER	SHK-12	540Z080A01		<u>!</u>
-	 	96	CLAMPER	SHK-6	540Z080A02		<u> </u>
39		97	CLAMPER	DGC-8.5-19	540Z093A02		-
1		98	CLAMPER	RLWS-2T	540Z105A01		-
1		99	CLAMPER	RLMC-05T	540Z105A02		<u> </u>
4		101	SPACER	KGLS-4S/LCBS-4-01	540Z088A01		
5		103	GUM-PAD		683V020-06		
2	 	104	GUM-PAD		683V017-01	 	
4	 	105	WASHER		683V016-03		
5	<u> </u>		PAD		765V003-01		
-	<u> </u>	106 108	INSULATION-SHEET		765V003-01 223T005-01		····
1		109	INSULATION-SHEET		2231005-01		<u> </u>
	<u> </u>		RIVET	DADSOWSUP CC	679Z002A01		
5	 	111		PAD30M3HR-CC			
*		113	HOLDING-TAPE	NO.29 L=90mm	830Z004A01		
	 	115 116	THERMISTOR SPEAKER	103JT-025-00057 NP-220/C057PA504-16/S57C16C-3	744Z006A10 883Z011A01		
1	 	118	SHIELD-FINGER	T10689	590Z033A01		
+	 	119	SHIELD-FINGER	T10690	590Z033A01		
9		120	SHIELD-FINGER	T10676	590Z034A01		
*		121	ACETATE-TAPE	NO.570F/AC04 L=80mm	830Z014A01		
*	 	124	ACETATE-TAPE	NO.570F/AC04 L=50mm	830Z014A01		
1	1-	125	SPOILER	С	890Z003A03		
1/10	 	126	SPOILER	E	890Z003A05		
4	1	130	FERRITE-CORE	KRCBC13/ZCAT1518/E1314MRC	755Z802E20		1
1		131	FERRITE-CORE	KRCBC16/ZCAT2032/E1630MRF	755Z803J20		1
1		135	CLAMPER	STL-250-8-01	540Z037A03		!
1		136	CLAMPER	#3T02/IR-4151-10	540Z077A02		!

DWG. TITLE : ASSY-MONITOR

QTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1		139	LEAD-CONNECTOR		246T096-16		1
1		140	LEAD-CONNECTOR		246T096-17		1
1		141	LEAD-CONNECTOR		246T096-18		ı
1		142	LEAD-CONNECTOR		246T096-19		!
1		143	LEAD-CONNECTOR		246T096-21		. 1
2		144	LEAD-CONNECTOR		246T096-22		1
1		147	LABEL		851V163-01		

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O'TY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
7		11	RADIATOR-B		5905146-01		<u> </u>
	-	12	SHIELD-PLATE		590V110-01	 	<u> </u>
1		13	SHIELD-VIDEO-A		590\$147-01	ļ	
 	 	14	SHIELD-USB		5901091-01		
6	 	17	SCREW	MP-SEMS-W3*10MC-S	630Z401B10	-	
3		18	SCREW	BTV3*8MC-S	631Z121B08		
1		21	HOLDER-NECK		5401001-02		1
-		22	LEAD-CONNECTOR		246T096-20		1
1		23	LEAD-WIRE		246Z001-01		1
1		24	LEAD-CONNECTOR		246T090-04		1
1		25	LEAD-CONNECTOR	-	2461096-11		ļ
	•	26	LEAD-CONNECTOR		246T096-12		1
1		27	CLAMPER	STL-450-12-01	540Z037A13		f
1		28	CLAMPER	STL-450-20-01	540Z037A15		1
1		29	CLAMPER	WS-A-1-01	540Z108A01		-
2		30	SPACER	TCBS-4-01	540Z042A03	-	
1		C101	C-E	25V 100M-M	460Z101B43		
1		C102	C-C-CHIP	25V F-R1M-Z	411Z104B44		
-		C103	C-E	25V 100M-M	4602101843		
1		C104	C-C-CHIP	25V F-R1M-Z	4112104844		
	ļ	C105	C-E	1	450Z109B83		
-		C106	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C107	C-C-CHIP C-E	25V F-R1M-Z 25V 100M-M	411Z104B44 460Z101B43	<u> </u>	
1	ļ	C108	C-E C-C-CHIP	25V 100M-M 150V CH-560P-J	4602101843		
	ļ	C110	C-C-CHIP	150V CH-560P-J	4102561814		
	ļ	C111	C-C-CHIP	50V CH-560P-J	410Z561B14		
-	<u> </u>	C112	C-C-CHIP	50V CH-560P-J	410Z561B14		
		C112	C-C-CHIP	25V F-R1M-Z	4102561B14		
		CTTA	C-C-CHIP	50V CH-100P-J	4102101814		
\dashv		C115	C-C-CHIP	50V CH-22P-J	4102220814		
-		C115	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C116	C-C-CHIP C-E	25V 100M-M	4102220B14 460Z101B43		
1	ļ	C117	C-E	25V 100M-M	460Z101B43		
					460Z101B43		
1		C119	C-C-CHIP	 			
1		C120	C-E	25V 100M-M 50V CH-22P-J	460Z101B43		
1		C121	C-C-CHIP	50V CH-22P-J 50V CH-22P-J	410Z220B14 410Z220B14		
		C122	C-C-Cnir		4102220014		
1		C123	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C127	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C128	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C129	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C130	C-C-CHIP	25V F-R1M-Z	411Z104B44		
		C131	C-E	25V 10M-M	460Z100G43		
1		C132	CE	25V 100M-M	460Z101B43		
		C133	C-E	25V 100M-M	460Z101B43		
1		C134	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C135	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C137	C-E	25V 100M-M	460Z101B43		·
1		C138	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C139	C-E	25V 100M-M	460Z101B43		
1		C140	C-E	25V 100M-M	460Z101B43		
1		C141	C-E	25V 100M-M	460Z101B43		
1		C146	C-C-CHIP	25V F-R1M-Z	411Z104844		
1		C151	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C152	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C153	C-E	16V 100M-M	465Z101C33	Ī	
1		C1B2	Č-Ē	25V 47M-M	4602470B43		
1		C1B4	C-E	25V 47M-M	460Z470B43	t	
-		C186	C-C-CHIP	25V F-R1M-Z	411Z104B44		
- -	ļ	C1G2	CE	25V 47M-M	460Z470B43		
- i-	 -	C1G4	C-E	25V 47M-M	460Z470B43		
-	\vdash	C1G5	C-E	25V 100M-M	460Z101B43		
	$ldsymbol{\sqcup}$						
1	$oxed{oxed}$	C1G6	C-C-CHIP	25V F-R1M-Z	411Z104B44		
	 	C1R2	C-E	25V 47M-M	460Z470B43		
1		C1R4	C-E	25V 47M-M	460Z470B43		
		C1R6	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1	 	C201	C-C-CHIP	25V F-R1M-Z	411Z104B44		
-1	اــــا	C202	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1	<u> </u>	C203	C-C-CHIP	25V F-R1M-Z	411Z104B44		
		C204	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C205	C-E	25V 100M-M	470Z101T43		
	<u> </u>	C206	C-E	25V 100M-M	470Z101T43		
-	 	C207	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1	لـــا	C209	C-C-CHIP	50V CH-220P-J	410Z221B14		
1	 	C211	C-C-CHIP	50V B-1000P-K	411Z102B14		
		C212	C-E	25V 100M-M	470Z101T43		

QTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1		C213	C-C-CHIP	25V F-R1M-Z	4112104844		
1		C214	C-E	100V 1M-M	470Z109T83		
1		C216	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C220	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C221	C- €	25V 100M-M	470Z101T43		
1		C222	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C223	C-E	25V 100M-M	470Z101T43	ļ	
1		C224	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C225	C-E	25V 100M-M	470Z101T43	ļ	
1		C226	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C227	C-E	25V 100M-M	470Z101T43		
1		C228	C-E	25V 100M-M	470Z101T43	1	
1		C229	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C230	C-E	25V 100M-M	470Z101T43	ļ	
1		C231	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C232	c-c	500V E-R01M-P/Z	411Z103A07		
1		C233	C-C	500V E-R01M-P/Z	411Z103A07		
1		C234	C-E	100V 220M-M	470Z221G87		
1		C235	C-E	100V 47M-M	470Z470G83		
1		C236	c-c	500V E-R01M-P/Z	411Z103A07		
1		C237	C-C	500V E-R01M-P/Z	411Z103A07	1	
1		C238	C-E	100V 10M-M	470Z100G83	1	
1		C239	c-c	2KV B-1000P-K	413Z102B43	1	
1		C240	c-c	1KV E-R01M-Z	413Z103A38	1	
1		C241	C-C	2KV B-3300P-K	413Z332A46		
1		C242	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C243	C-C	500V E-R01M-P/Z	411Z103A07		
1		C244	c-c	500V E-R01M-P/Z	411Z103A07	<u> </u>	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1		C245	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C246	C-E	25V 100M-M	470Z101T43		
1		C247	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C248	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C249	C-C-CHIP	50V B-4700P-K	411Z472B14		
1		C250	C-C-CHIP	50V B-4700P-K	411Z472B14		
1		C252	C-C	500V SL-100P-J	410Z101B43		
1		C2B1	C-E-NP	50V 3R3M-M	472Z339B63		
1		C2B3	C-C-CHIP	100/200V CH-120P-J	410Z121A54		
1		C2B4	C-E-NP	100V 1M-M	472Z109F83		
1		C2B5	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C2B6	C-E	100V 1M-M	470Z109T83		
1		C2B7	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C2G1	C-E-NP	50V 3R3M-M	472Z339B63		
1		C2G3	C-C-CHIP	100/200V CH-120P-J	410Z121A54		
1		C2G4	C-E-NP	100V 1M-M	472Z109F83		
1		C2G5	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C2G6	C-E	100V 1M-M	470Z109T83		
1		C2G7	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C2R1	C-E-NP	50V 3R3M-M	472Z339B63		
1		C2R3	C-C-CHIP	100/200V CH-120P-J	410Z121A54		
1		C2R4	C-E-NP	100V 1M-M	472Z109F83		
1		C2R5	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C2R6	C-E	100V 1M-M	470Z109T83		
1		C2R7	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C602	C-E	25V 100M-M	470Z101T43		
1		C813	C-E	100V 1M-M	460Z109B83		
1		C615	C-E-NP	100V 1M-M	462Z109B83		
1		C616	C-E-NP	100V 1M-M	462Z109B83		
1		C619	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C623	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C624	C-E	100V 1M-M	470Z109T83		
1		C625	C-E	100V 1M-M	470Z109T83		
1		C626	C-E	50V 22M-M	470Z220T63		
1		C701	C-E	25V 220M-M	470Z221T43		
1		C702	C-E	25V 220M-M	470Z221T43		
1		C703	C-E	25V 220M-M	470Z221T43		
1		C704	C-E	25V 220M-M	470Z221T43		
1		C705	C-E	25V 100M-M	460Z101B43		
1		C706	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C707	C-C-CHIP	50V CH-22P-J	410Z220B14		
1		C708	C-E	50V 3R3M-M	460Z339B63	1	
1		C709	C-E	25V 100M-M	460Z101B43		
, 		C710	C-E	100V 1M-M	470Z109T83	 	
1		C711	C-C-CHIP	25V F-R1M-Z	411Z104B44		
╗		C712	C-C-CHIP	25V F-R1M-Z	411Z104B44	 	
1	-	C713	C-C-CHIP	25V F-R1M-Z	411Z104B44	 	
'		C901	C-PP	AC250/275VR47M-M	510Z014A16	 	1
+		C902	C-PP	AC250/275VR47M-M	510Z014A16	 	
÷		C903	C-C	AC250V 2200P-M	510Z011A26	 	 ;-
		,~~~	1	1		1 {	

	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
7		C904	6-c"	AC250V 2200P-M	510Z011A26		1
1		C905	c-c	2KV B-220P-K	413Z221B43		
1		C906	c-c	2KV B-220P-K	413Z221B43	1	
1		C907	C-E	400V 68M-M	467Z011A10		1
1		C909	C-E	50V 33M-M	460Z330B63		
1		C910	c-c	2KV SL-47P-J	414Z470A28		
1		C911	C-C-CHIP	50V CH-470P-J	410Z471B14		
1		C912	C-C-CHIP	50V F-R01M-Z	411Z103B24		
1		C913	c-c	AC250V 2200P-M	510Z012A16		1
1		C920	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C921	c-c	2KV B-220P-K	413Z221B43		
1		C922	c-c	2KV B-220P-K	413Z221B43		
-1-1		C923	C-E	25V 820M-M	470Z821S47		
1		C924	C-C-CHIP	25V F-R1M-Z	411Z104B44		
1		C925	C-E	25V 100M-M	460Z101B43		
+		C926 C928	C-C-CHIP C-E	25V F-R1M-Z 25V 820M-M	411Z104B44		
++		C929	C-MF	50/100V R1M-J	470Z821S47 420Z104B83		
+		C930	C-C-CHIP	25V F-R1M-Z	411Z104B44	 	
1		C931	C-E	25V 100M-M	460Z101B43	\vdash	
+		C932	C-C-CHIP	25V F-R1M-Z	411Z104B44		
\div		C933	C-E	25V 22M-M	460Z220G43		
+		C933	C-MF	50V R22M-J	480Z220G43	$\vdash \vdash \vdash$	
i		D101	D-CHIP	HSM123/DAN217/1PS226	742Z017A24	ļ	
+		D101	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D103	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D104	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D105	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D106	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D107	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D108	D-CHIP	HSM123/DAN217/1PS226	742Z017A24	-	
+	\dashv	D109	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		D112	D	1N4148/1SS133/1SS120	742Z001A21		
1		D150	LED	TLYG116	262Z018A40		
1		D181	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
;		D183	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
+		DIG1	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D1G3	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D1R1	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D1R3	D-CHIP	HSM123/DAN217/1P\$226	742Z017A24		
1		D201	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1	$\neg \neg$	D202	ZD	MTZ-J4.7B/HZ5B1	742Z414A21		
1		D203	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D2B1	D-CHIP	1SS376/HSU63	742Z039A24		
1	$\neg \uparrow$	D2G1	D-CHIP	1SS376/HSU83	742Z039A24		
1		D2R1	D-CHIP	1SS376/HSU83	742Z039A24		·····
1		D701	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D901	D	S1VB60/KBP06ML-6836	742Z056A16		
1		D906	D	EG01/D1NL40	742Z020A11	$\neg \neg$	1
1		D908	D-CHIP	HSM123/DAN217/1PS226	742Z017A24		
1		D920	D	EM01Z/D1N60/1N4003	742Z019A31		
1		D921	D	SF5LC20U/FML-12S	742Z057A15		
1		D922	D	SF10SC9/YG802C09R/FCH10A09	742Z058A15		
1			D	HER108/EG01C/UF4007	742Z024A21		
1			ZD	P6KE120/Z2120U	742Z420A11	I	
1			FUSE	19181/UL-ET6.3A/21806.3	283Z219A10		1
1			FUSE-CLIP	5.2+/-0.15*20-0.5MM	442Z002A13		
1			FUSE-CLIP	5.2+/-0.15*20-0.5MM	442Z002A13		
-1-1			K	M61323SP-600	741Z429A10		
1			IC-CHIP	24C21	741Z806A24		
1			IC-CHIP	24C21	741Z806A24		
			iC	TMP47C241N	741Z620B10		
1			IC-CHIP	74LS157	741Z060A14		
1			iC	CXA2153S	741Z451A10		
1							
1 1 1		C202	IC .	LM2412T	741Z440A17		
1 1 1 1		IC202 IC203	Ю	M35047-057SP/063SP	741Z059A30		
1 1 1 1 1		IC202 IC203 IC204	ic IC	M35047-057SP/063SP LM2480NA	741Z059A30 741Z435A10		
1 1 1 1 1 1 1		IC202 IC203 IC204 IC205	ic ic	M35047-057SP/063SP LM2480NA 7805	741Z059A30 741Z435A10 741Z532A25		
1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC601	IC IC IC IC	M35047-057SP/063SP LM2480NA 7805 AN7522	741Z059A30 741Z435A10 741Z532A25 741Z431A10		
1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC801	IC IC IC IC	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122	741Z059A30 741Z435A10 741Z532A25 741Z431A10 741Z062A10		
1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC601 IC701	ic ic ic ic ic	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C	741Z059A30 741Z435A10 741Z532A25 741Z431A10 741Z06ZA10 741Z06ZA10		
1 1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC601 IC701 IC702 IC901	ic ic ic ic ic	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C STR-G8551	741Z059A30 741Z435A10 741Z532A25 741Z431A10 741Z062A10 741Z063A10 741Z528A17		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC601 IC701 IC702 IC901 IC920	IC IC IC IC IC IC IC IC	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C STR-G6551 2SA1020	741Z059A30 741Z435A10 741Z53ZA25 741Z431A10 741Z062A10 741Z062A10 741Z063A10 741Z528A17 740Z014A13		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC801 IC701 IC702 IC901 IC920 IC921	IC	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C STR-06551 2SA1020 431	741Z059A30 741Z435A10 741Z53ZA25 741Z431A10 741Z06ZA10 741Z06ZA10 741Z063A10 741Z528A17 740Z014A13 741Z21Z4A3		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC801 IC701 IC702 IC901 IC920 IC921 IC901	IC I	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C STR-G6551 2SA1020	741Z059A30 741Z435A10 741Z53ZA25 741Z431A10 741Z06ZA10 741Z06ZA10 741Z063A10 741Z52BA17 740Z014A13 741Z21ZA43 781Z010A20		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IC202 IC203 IC204 IC205 IC601 IC701 IC702 IC901 IC920 IC921 IC901 IC920	IC	M35047-057SP/063SP LM2480NA 7805 AN7522 ISP1122 PCF8582C STR-06551 2SA1020 431	741Z059A30 741Z435A10 741Z53ZA25 741Z431A10 741Z06ZA10 741Z06ZA10 741Z063A10 741Z528A17 740Z014A13 741Z21Z4A3		

QʻTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
1		Ĺ104	R-M-CHIP	1/10W ZERO	6132999824		
1		L105	R-M-CHIP	1/10W ZERO	613Z999B24		
1		L106	R-M-CHIP	1/10W ZERO	613Z999B24		
1	L	L107	R-M-CHIP	1/10W ZERO	613Z999824		
1		L108 L109	R-M-CHIP R-M-CHIP	1/10W ZERO 1/10W ZERO	613Z999B24 613Z999B24		
<u> </u>		L110	COIL-CHOKE	22MH	751Z308A26		
1		L150	SO-COPPER-WIRE		990Z001A11		
1		L181	R-M-CHIP	1/8W ZERO	613Z999B34		
1		L1B2	R-M-CHIP	1/8W ZERO	613Z999B34		
1		L1G1	R-M-CHIP	1/8W ZERO	613Z999B34		
		L1G2	R-M-CHIP	1/8W ZERO	613Z999B34		
1		L1R1 L1R2	R-M-CHIP R-M-CHIP	1/8W ZERO	613Z999B34		
+		L1R2	SO-COPPER-WIRE	11644 ZERO	613Z999B34 990Z001A11		
1		L202	COIL-CHOKE	100MH	321P054A10	-	
1		L204	COIL-CHOKE	22MH	750Z601A11	 	
1		L206	R-M-CHIP	1/8W ZERO	613Z999B34		
1		L207	COIL-CHOKE	22MH	751Z308A26		
1		L208	SO-COPPER-WIRE		990Z001A11		
1		L210	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L211 L213	FERRITE-BEADS FILTER-CHIP	ZBF503/EXCEL STC104B	750Z906A13 752Z020A24		
1		L213 L2B1	R-M-CHIP	1/10W ZERO	7522020A24 613Z999B24		
- 		L2B2	R-M-CHIP	1/10W ZERO	613Z999B24		
1		L2B3	R-M-CHIP	1/10W 68-J	613Z680C24		
1		L2B4	SO-COPPER-WIRE		990Z001A11		
1		L2G1	R-M-CHIP	1/10W ZERO	613Z999B24		
1		L2G2	R-M-CHIP	1/10W ZERO	613Z999B24		
1		L2G3	R-M-CHIP	1/10W 33-J	613Z330C24		
1		L2G4 L2R1	SO-COPPER-WIRE R-M-CHIP	1/100/ 7500	990Z001A11		
+		L2R1	R-M-CHIP	1/10W ZERO 1/10W ZERO	613Z999B24 613Z999B24		
		L2R3	R-M-CHIP	1/10W 33-J	613Z330C24		
1		L2R4	SO-COPPER-WIRE		990Z001A11		
1		L601	FILTER-CHIP	STC222B	752Z020A14		
1		L602	FILTER-CHIP	STC222B	752Z020A14		
1		L603	FILTER-CHIP	STC222B	752Z020A14		
1		L604	FILTER-CHIP	STC222B	752Z020A14		
1		L605 L606	FILTER-CHIP FILTER-CHIP	STC222B STC222B	752Z020A14 752Z020A14		
+		L607	SO-COPPER-WIRE	0.02220	990Z001A11		
1		L701	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L702	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L703	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L704	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L705	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L706 L707	FERRITE-BEADS FERRITE-BEADS	ZBF503/EXCEL ZBF503/EXCEL	750Z906A13 750Z906A13		
╗		L708	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13 750Z906A13		
-			FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L710	FILTER-CHIP	DLP31SN551SL2	752Z012A14		
1		L711	FILTER-CHIP	DLP31SN551SL2	752Z012A14		
1		L712	FILTER-CHIP	DLP31SN551SL2	752Z012A14		
1			FILTER-CHIP	DLP31SN551SL2	752Z012A14		
1		L714	FILTER-CHIP	DLP31SN551SL2	752Z012A14		
1 1		L715 L716	FERRITE-BEADS FERRITE-BEADS	ZBF503/EXCEL ZBF503/EXCEL	750Z906A13 750Z906A13		
+		L717	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13 750Z906A13		
1		L718	FILTER-CHIP	STC222B	752Z020A13		
1			FILTER-CHIP	STC222B	752Z020A14	-+	
1		L720	FERRITE-BEADS	ZBF503/EXCEL	750Z906A13		
1		L901	LINE-FILTER	SS28H/753Z019	753Z019A10		!
1			LINE-FILTER	SS28V/753Z018	753Z018A10		ı
1			SO-COPPER-WIRE COIL-CHOKE	10884	990Z001A11		
1			COIL-CHOKE	10MH 10MH	751Z619A26 751Z619A26		
+			PHC	TLP421F(D4-GR)	743Z002A10	-+	1
1			TR-CHIP	KRA103/DTA124/RN2403/PDTA124	740Z661A34		
1			TR-CHIP	KRA103/DTA124/RN2403/PDTA124	740Z661A34		·
1		Q152	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34		
1			TR-CHIP	BT1815/2SC2412/KTC3875/2PD601	740Z151A34		
1	\rightarrow		TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34		
1				KRC103/DTC124/RN1403/PDTC124	740Z654A34		
	- 12			BT1815/2SC2412/KTC3875/2PD601	740Z151A34		···
1		C205 !	TD I				
1 1 1				2SC5395/2SC1740S/2SC945/KTC945 BT1815/2SC2412/KTC3875/2PD601	740Z160A23 740Z151A34		

QTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARI
1		Q922	TR-CHIP	KRC103/DTC124/RN1403/PDTC124	740Z654A34	Ť T	Ì
1		R101	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R102	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1	ļ	R103	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R104	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R107	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R108 R109	R-M-CHIP R-M-CHIP	1/10W 33-J	613Z330C24 613Z330C24		
1		R110	R-M-CHIP	1/10W 33-J	613Z330C24		
<u> </u>		R111	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R112	R-M-CHIP	1/10W 4R7K-J	613Z472C24	-	
1	•	R113	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R114	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R116	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R117	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R119 R120	R-M-CHIP	1/10W 1K-J 1/10W 1K-J	613Z102C24		
-		R120	R-M-CHIP	1/10W 1K-J	613Z102C24 613Z102C24	L	
- i - l		R122	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R123	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R124	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R126	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R127	R-M-CHIP	1/10W 4R7K-J	613Z472C24		
1		R128	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R129	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R130 R131	R-M-CHIP R-M-CHIP	1/10W 1K-J 1/10W 4R7K-J	613Z102C24		
1		R131	R-M-CHIP	1/10W 4R/K-J	613Z472C24 613Z330C24		
+		R133	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R134	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R135	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R136	R-C	1/4W 4R7K-J	613Z472C11		
1			R-C	1/4W 1K-J	613Z102C11		
1			R-M-CHIP	1/10W 4R7K-J	613Z472C24		
- !			R-M-CHIP	1/10W 1K-J	613Z102C24		
1			R-M-CHIP R-M-CHIP	1/10W 1K-J 1/10W 1K-J	613Z102C24		
-			R-M-CHIP	1/10W 100-J	613Z102C24 613Z101C24		
1			R-M-CHIP	1/10W 100-J	613Z101C24		
1	\neg	R144	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R145	R-M-CHIP	1/10W 3R3K-J	613Z332C24		
1			R-M-CHIP	1/10W 4R7K-J	613Z472C24		
			R-M-CHIP	1/10W 4R7K-J	613Z472C24		
+			R-M-CHIP R-M-CHIP	1/10W 4R7K-J 1/10W ZERO	613Z472C24		
+			R-M-CHIP	1/10W 10K-J	613Z999B24 613Z103C24		· · · · · · · · · · · · · · · · · · ·
	\rightarrow		R-M-CHIP	1/10W ZERO	613Z999B24		
7			R-M-CHIP	1/10W 39K-J	613Z393C24		
1		R154	R-M-CHIP	1/10W 15K-J	613Z153C24		
1		R155	R-M-CHIP	1/10W 6R8K-J	613Z682C24		
1			R-M-CHIP	1/10W 10K-J	613Z103C24		
-1-1			R-M-CHIP	1/10W 10K-J	613Z103C24		
- 1	-		R-C	1/4W 180-J	613Z181C11		
1			R-C R-MB	1/4W 180-J 1/4W 100K-F	613Z181C11 615Z104B11		
-;-			R-M-CHIP	1/10W 10K-J	613Z104B11		
- 	$\overline{}$		R-M-CHIP	1/10W 1K-J	613Z102C24		
1			R-M-CHIP	1/10W 39K-J	613Z393C24		
1		R172	R-M-CHIP	1/10W 20K-J	613Z203C24		
<u> </u>				1/10W 10K-J	613Z103C24		
1				1/10W 5R1K-J	613Z512C24		
- 1				1/10W 12K-J	613Z123C24]	
				1/10W 5R1K-J	613Z512C24		
1				1/10W 75-F 1/10W 75-F	613Z750C54		
+				1/10W /5-F 1/10W 10-J	613Z750C54 613Z100C24	}	
-; 				1/10W 75-F	613Z750C54	\dashv	
- 	$\overline{}$			1/10W 75-F	613Z750C54		
1				1/10W 10-J	613Z100C24	\dashv	
1			R-M-CHIP	1/10W 75-F	613Z750C54		
1		R1R2	R-M-CHIP	1/10W 75-F	613Z750C54		
1		R1R4	R-M-CHIP	1/10W 10-J	613Z100C24		
1				1/10W 100-J	613Z101C24		
1				1/10W 33-J	613Z330C24		
	- 11	२२०३ ।	R-M-CHIP	1/10W 33-J	613Z330C24		
1		200	3.44.01.90				
1 1 1				1/10W 1K-J 1/4W 100-J	613Z102C24 613Z101C11		

Q'TY F	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMAR
1		Ř207	R-M-CHIP	1/10W 10K-J	613Z103C24	<u> </u>	
1		R208	R-M-CHIP	1/10W 2R2K-J	613Z222C24		
1		R209	R-C	1/4W 5R6K-J	613Z562C11	 	
1		R210	R-C	1/4W 1K-J	613Z102C11	<u> </u>	
1		R211	R-C	1/4W 100-J	613Z101C11	ļ	
1		R212	R-M-CHIP	1/10W 2R2K-J	613Z222C24	Ļ	
1		R213	R-C	1/4W 10K-J	613Z103C11	<u> </u>	
1		R214	R-M-CHIP	1/10W 6R8K-J	613Z682C24	ļ	
1		R215	R-M-CHIP	1/10W ZERO	613Z999B24		
1		R216	R-C	1/4W 1K-J	613Z102C11		
1		R217	R-M-CHIP	1/10W ZERO	613Z999B24	1	
1		R218	R-C	1/4W 100-J	613Z101C11		
1		R220	R-M-CHIP	1/10W 33-J	613Z330C24	<u> </u>	
1		R221	R-M-CHIP	1/10W 33-J	613Z330C24	ļ	
1		R222	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R227	R-M-CHIP	1/10W 100-J	613Z101C24	L	
1		R228	R-M-CHIP	1/10W 100-J	613Z101C24		
1		R229	R-M-CHIP	1/10W 100-J	613Z101C24		
1		R230	R-M-CHIP	1/10W 100-J	613Z101C24		
1		R231	R-M-CHIP	1/10W 100-J	613Z101C24		
1		R232	R-C	1/2W 10K-J	613Z103D81		
1		R233	R-C	1/2W 22K-J	613Z223D81		
1		R234	SO-COPPER-WIRE		990Z001A11		
1		R235	R-M-CHIP	1/10W 1K-J	613Z102C24	L	
1		R237	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R238	R-M-CHIP	1/10W 2R4K-J	613Z242C24		
1		R239	R-C	1/4W 10K-J	613Z103C11	1	
1		R240	R-C	1/4W 1K-J	613Z102C11	1	
1		R241	R-M-CHIP	1/10W ZERO	613Z999B24		
1		R2B2	R-M-CHIP	1/10W 22-J	613Z220C24		
1		R2B4	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R2B5	R-C	1/2W 56-J	613Z560D81		
1		R2B6	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R2B7	R-M-CHIP	1/10W 2R7K-J	613Z272C24		
1		R2BA	SO-COPPER-WIRE		990Z001A11		
1		R2BB	R-M-CHIP	1/10W 330K-J	613Z334C24		
1		R2BC	R-C	1/4W 1M-J	613Z105C11		
1		R2BD	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R2G2	R-M-CHIP	1/10W 10-J	613Z100C24	1	
1		R2G4	R-M-CHIP	1/10W 33-J	613Z330C24	†	
1		R2G5	R-C	1/2W 56-J	613Z560D81	1	
1		R2G6	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R2G7	R-M-CHIP	1/10W 2R7K-J	613Z272C24		
1		R2GA	SO-COPPER-WIRE		990Z001A11	1	
1		R2GB	R-M-CHIP	1/10W 330K-J	613Z334C24		
1		R2GC	R-C	1/4W 1M-J	613Z105C11		
1		R2GD	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R2R2	R-M-CHIP	1/10W 10-J	613Z100C24	†	
 		R2R4	R-M-CHIP	1/10W 33-J	613Z330C24		
1		R2R5	R-C	1/2W 56-J	613Z560D81	 	
'		R2R6	R-M-CHIP	1/10W 1K-J	613Z102C24		
+		R2R7	R-M-CHIP	1/10W 2R7K-J	613Z272C24	†	
1		R2RA	SO-COPPER-WIRE		990Z001A11	 	
+		R2RB	R-M-CHIP	1/10W 330K-J	613Z334C24	 	
1		R2RC	R-C	1/4W 1M-J	613Z105C11	† • • • • • • • • • • • • • • • • • • •	
;		R2RD	R-M-CHIP	1/10W 10K-J	613Z103C24	 	
1		R601	R-M-CHIP	1/10W 18K-J	613Z183C24	 	
1		R602	R-M-CHIP	1/10W 18K-J	613Z183C24	 	
1		R603	R-M-CHIP	1/10W 1R1K-J	613Z112C24	 	
		R604	R-M-CHIP	1/10W 1R1K-J	613Z112C24	 	
1 1		R605	R-M-CHIP	1/10W 1K-J	613Z102C24	1	
; 		R607	R-M-CHIP	1/10W 220-J	613Z221C24	 	
+		R608	R-M-CHIP	1/10W 220-J	613Z221C24	 	
1		R609	R-M-CHIP	1/10W 68K-J	613Z683C24	 	
+		R610	R-M-CHIP	1/10W 47K-J	613Z473C24	 	
		R611	R-M-CHIP	1/10W 1K-J	613Z102C24	 	
1		R701	R-M-CHIP	1/10W 18-J	613Z180C24	 	
1					613Z180C24	 	
! 		R702	R-M-CHIP		613Z180C24	 	
1		R703	R-M-CHIP	1/10W 18-J		-	
1		R704	R-M-CHIP	1/10W 18-J	613Z180C24	 	
! 		R705	R-M-CHIP	1/10W 18-J	613Z180C24	 	ļ
1		R706	R-M-CHIP	1/10W 18-J	613Z180C24	 	
<u> </u>		R707	R-M-CHIP	1/10W 18-J	613Z180C24	ļ	
1		R708	R-M-CHIP	1/10W 18-J	613Z180C24	├	
1		R709	R-M-CHIP	1/10W 18-J	613Z180C24	 	
1		R710	R-M-CHIP	1/10W 18-J	613Z180C24		
1		R711	R-M-CHIP	1/10W 15K-J	613Z153C24		
1		R712	R-M-CHIP	1/10W 15K-J	613Z153C24		

07	DEM	DEE	PART	DESCRIPTION	DARTNO	PRICE	DEMAN
QTY	REV.	REF.NO.		DESCRIPTION	PART NO.	PRICE	REMARK
	<u> </u>	R713	R-M-CHIP	1/10W 1R5K-J	613Z152C24		
1	├	R715	R-M-CHIP	1/10W 15K-J 1/10W 15K-J	613Z153C24		
	├	R716 R717	R-M-CHIP	1/10W 15K-J 1/10W 15K-J	613Z153C24 613Z153C24		
1	├	R718	R-M-CHIP	1/10W 15K-J	613Z153C24		
1	├	R719	R-M-CHIP	1/10W 15K-J	613Z153C24		
1	 	R720	R-M-CHIP	1/10W 15K-J	613Z153C24	 	
1	<u> </u>	R721	R-M-CHIP	1/10W 1M-J	613Z105C24	-	
1		R722	R-M-CHIP	1/10W 3R3K-J	613Z332C24	 	
1		R723	R-M-CHIP	1/10W 3R3K-J	613Z332C24	· · · · · · ·	
1		R724	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R725	R-C	1/4W 1K-J	613Z102C11		
1		R732	THERMISTOR	RUSB120	744Z005A13		
1		R733	THERMISTOR	RUSB120	744Z005A13		
1		R734	THERMISTOR	RUSB120	744Z005A13		
1		R735	THERMISTOR	RUSB120	744Z005A13		
1		R901	R-C	1/2W 470K-J	613Z474D81		1
1		R903	R-FUSE	1/4W 10-J	614Z100A61		
1		R905	R-C	1/4W 680-J	613Z681C11		
1	ļ	R906	R-MB	1W R47-J	612Z478C27		
1		R907	R-M-CHIP	1/10W 3R3K-J	613Z332C24		
1	ļ	R908	R-MB	2W 100K-J	612Z104C37	 	
1	 	R909	R-MB FUSE	2W 100K-J 251005/20N5000	612Z104C37 283Z221A21		
1	 	R910 R920	R-FUSE	251005/20N5000 1/4W 15-J	283Z221A21 614Z150A61		
1	 	R920 R921	R-FUSE	1/4W 15-J	614Z150A61		
1	 	R921 R925	R-FUSE	1/4W 15-J	613Z271C11		
1		R925 R926	R-M-CHIP	1/10W 2R2K-J	613Z222C24		
<u> </u>		R927	R-M-CHIP	1/10W 2R2K-F	613Z222C54		
1		R928	R-M-CHIP	1/10W 1K-J	613Z102C24		
1		R929	R-M-CHIP	1/10W 1K-F	613Z102C54		
+	\vdash	R930	FUSE	251003/20N3000	283Z221A11		
÷	\vdash	R931	FUSE	20N3150	283Z223A11		
1	 	R932	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R933	R-M-CHIP	1/10W 10K-J	613Z103C24		
1		R935	R-C	1/4W 2R2K-J	613Z222C11		
1		R936	R-C	1/4W 470-J	613Z471C11		
1		S150	sw	EVQ11A07K	129Z037A13		
1		S151	sw	EVQ11A07K	129Z037A13		
1		S152	sw	EVQ11A07K	129Z037A13		
1		S153	sw	EVQ11A07K	129Z037A13		
1		S154	sw	EVQ11A07K	129Z037A13		
1		S155	sw	EVQ11A07K	129Z037A13		
1		S901	SW-POWER	AJ7241WW	129Z041A10		
1		SG201	NEON-LAMP	DSP-152M/YP-152N	789Z014A31		
1		SG202	NEON-LAMP	DSP-201M/YP-201N	789Z014A41		
1		SG2B1	NEON-LAMP	DSP-201MYP-201N	789Z014A41		
!	L	SG2G1	NEON-LAMP	DSP-201M/YP-201N	789Z014A41		
1		SG2R1	NEON-LAMP	DSP-201M/YP-201N	789Z014A41		
		T901	swt	AUTO A DVI MODERNOM	756Z017A10		
-!-	 	TH150 TH901	THERMISTOR THERMISTOR	NTSA0XH103EN6A0	744Z004A13		
1		TH901 VR901	VR THERMISTOR	10 B-2K	744Z001A28 620Z202A60		!
		X101	XTAL	4MHZ	780Z012A13		1
<u> </u>		X701	X'TAL	6MHZ	780Z003A33		
-	 	CN101	CONNECTOR-SIGNAL	SDA-87112/SDA-89263/EHDE-15S	452Z723A10		1
<u> </u>		CN102	CONNECTOR-SIGNAL	SDA-87112/SDA-89263/EHDE-15S	452Z723A10		· ·
1	$\vdash \vdash$	CN203	SOCKET-CRT	ISDW02S-L	449Z005A10	 	i
<u> </u>	\vdash	CN601	CONNECTOR-SIGNAL	HSJ2000-01-010	452Z770A10		- i
1	Н	CN602	CONNECTOR-SIGNAL	HSJ2000-01-010	452Z770A10		1
1		CN701	CONNECTOR-SIGNAL	820-BFR-M13/ABDBC004C0	452Z775A10		1
1		CN702	CONNECTOR-SIGNAL	AACB2008A0	452Z771A30		!
1		CN703	CONNECTOR-SIGNAL	AACB2008A0	452Z771A30		!
2		Ä	CONNECTOR	A2501WV2-8P	452Z029G10		1
1		AC	CONNECTOR	A3963WV2-3P-2NC	452Z052A10		1
1		AD	CONNECTOR	A3963WV2-5P-2,4NC	452Z052B10		1
1		В	CONNECTOR	A2501WV2-7P	452Z029F10		!
1		B1	CONNECTOR	A2501WV2-3P	452Z029B10		1
1		C2	CONNECTOR	A2501WV2-6P	452Z029E10		1
1		D	CONNECTOR	A2501WV2-6P	452Z029E10		1
2		E	CONNECTOR	A2501WV2-2P	452Z029A10		1
1		G	CONNECTOR	A2501WV2-5P	452Z029D10		!
1		G1	CONNECTOR	A2501WV2-4P	452Z029C10		1
1		L	CONNECTOR	A2501WV2-3P	452Z029B10		I
1		R	CONNECTOR	A2501WV2-2P	452Z029A10]	1
1		sc	CONNECTOR	A3963WV2-2P	452Z030A10		1
2			GT-PIN	DIA2.36	452Z902A10	I	
19	1]		EYELET		679D022A20	Ī	

DWG, TITLE : ASSY-PWB-STAND

QTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
2		l''	RADIATOR		595D313A10		
1			RADIATOR	OSH-2425/PR1724/790Z006-10	790Z006A10		
1			RADIATOR	15*24.5*100	790Z033A10		
1		12	R-FUSE	1W 6R8-J	614Z689B37	1	······
1			PWB-STAND		210R099-01		1

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DWG. TITLE : SUB-MATELIAL

QTY	REV.	REF.NO.	PART	DESCRIPTION	PART NO.	PRICE	REMARK
#		AA	SILICONE-GUM	TSE3940/KE3490	090Z001A10		!
#		АВ	SILICONE-GUM	TSE3940	090Z001A20		1
#		AC	SILICONE-GUM	TSE3941	090Z032A01		1
#		AD	SILICONE-GUM	KE3480	090Z018A01		1
#		AE	SILICONE-GUM	TSE3941	090Z032A02		-
*		AF	SILICONE-GUM	KE40RTV	090Z009A30		1
#		AH	SILICONE-GREASE	YG6260/G747	090Z007A10		
#		AJ	SILICONE-GREASE	KS660	090Z027A01		
#		AK	SILICONE-GREASE	G501	090Z016A01		
#		AL.	SILICONE-GREASE	TSK5370	090Z028A01		
# .		AM	BOND	LEICHLOCK-NO.3-C	090Z010A10		
#		AP	BOND	DN297A	090Z012A10		
#		AQ	BOND	DN297A	090Z012A20		
#		AR	BOND	3609/348/MR-8121	090Z031A01		
#		AS	BOND	EC3748-TC-Q	090Z014A10		
*		AU	SOLDER-ROSIN	E-28RH60-B/RS3/X52/115A-1	090Z019A01		
*		ΑV	SOLDER-ROSIN	E-28RH60-B/RS3/115A-1	090Z019A02		
#		AW	SOLDER-ROSIN	E-28RH60-B/RS3/115A-1	090Z019A03		
#		AX	SOLDER-ROSIN	SE4-M952K	090Z030A02		
#		AY	SOLDER-ROSIN	H63A/H63S/BAR63/37/63EN/H63E	090Z023A01		
#		AZ	SOLDER-ROSIN	T6204/221CM5/PS130B	090Z030A01		
*		ВА	FLUX	CF330VH/130VS/TNF21V	090Z021A01		
#		88	FLUX	ULF-300VZ-2/ULF-300VZ-3	090Z021A02	1 1	
#		BC	DILUTION		090Z022A01		
#		BE	CLEAN-COAT	TC-110M/TC-131L	090Z026A01		
*		BG	STAPLE	TB18	811Z001A01		
#		BJ	PAINT	30-10	090Z020A01	1	
#		BK	PAINT	WHITE	090Z029A01		
*		BM	LABEL	TACK-TITLE-70-4IN-G	851Z001A04		
#		8P	SUB-PARTS	JK-WIPER-150S	090Z033A01		
#		BT	UL-TAPE	NO.303	830P100A10		
#		BU	DF-TAPE	#575	890P329A10		
#		BV	ACETATE-TAPE	NO.570F/AC04	830Z014A01		
#		BY	TAPE	T222A	830Z011A01		
#		CA	MAGNET	B-1030	890P302A10		
*		СВ	MAGNET	OP-B1F	890P326A10		
*		cc	MAGNET	M-594(58854900)	890Z008A01		
#		CD	MAGNET	138D	890Z010A01		
#		CE	ITC-PARTS	FERRITE-PIECE-A	890Z011A01		

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